

Pittsburgh
PERMAFLECTOR

Lighting



PITTSBURGH REFLECTOR COMPANY
OLIVER BUILDING • PITTSBURGH, PENNSYLVANIA

AIA-31-S-2

PERMANENT

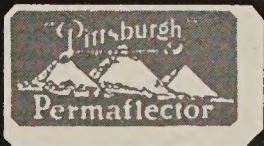
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Driscoll



BUHL PLANETARIUM
Pittsburgh, Pa.

Architect — Ingham & Boyd
Electrical Contractor — Hess & Barton

PERMAFLECTOR



Lighting



LASTING BRIGHTNESS MEANS LASTING ECONOMY



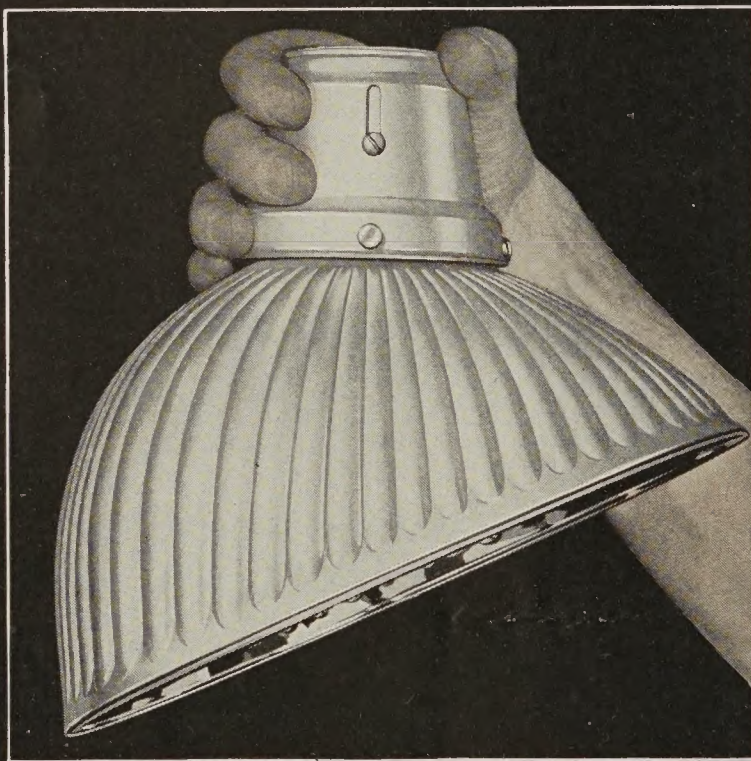
Crystal Glass, made in our own factory that we may control every step of the process. Result—clear, sparkling, uniform.



Pure silver, double plated—the surface that reflects light with least loss by absorption.



Copper envelope—seals the silver between glass on the one side and copper on the other. Like a copper roof it is a lifetime protection.



Silver colored satin finish—distinctive, handsome, harmonizes with all backgrounds.

The above illustrations explain fully the four most important steps used in achieving the "lasting brightness" which makes Permafectors the standard of efficiency and economy in the lighting field.

The **permanent efficiency** of Permafectors is recognized by thousands of users everywhere—purchasers who have learned from experience that there is the "cost-to-use" as well as the "cost-to-buy." Cheap reflectors are costly at any price. The "price-to-buy" may be attractively **low** — the "cost-to-use" exceedingly **high**.

If, for every dollar a user spends for current, 40c worth is wasted by poor reflectors — he gets only 60c worth of illumin-

ation. Where is the economy of a poor reflector? For example, suppose a merchant has two show windows, each using ten 150 watt lamps. At 3c per kilowatt hour, twenty 150 watt lamps burning ten hours each day will consume \$270.00 worth of current in a 300 day year. If poor reflectors are absorbing 40% of the reflected light — and some absorb as much as 60% — the merchant might lose enough in **one** year to pay the entire cost of good reflector equipment.

Why pay — and keep on paying — and receive little in return? Lasting brightness is the **only** way to lighting economy . . . and lasting brightness is yours when you insist on Permafectors.



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR INCANDESCENT LIGHTING EQUIPMENT

Quick-Selection

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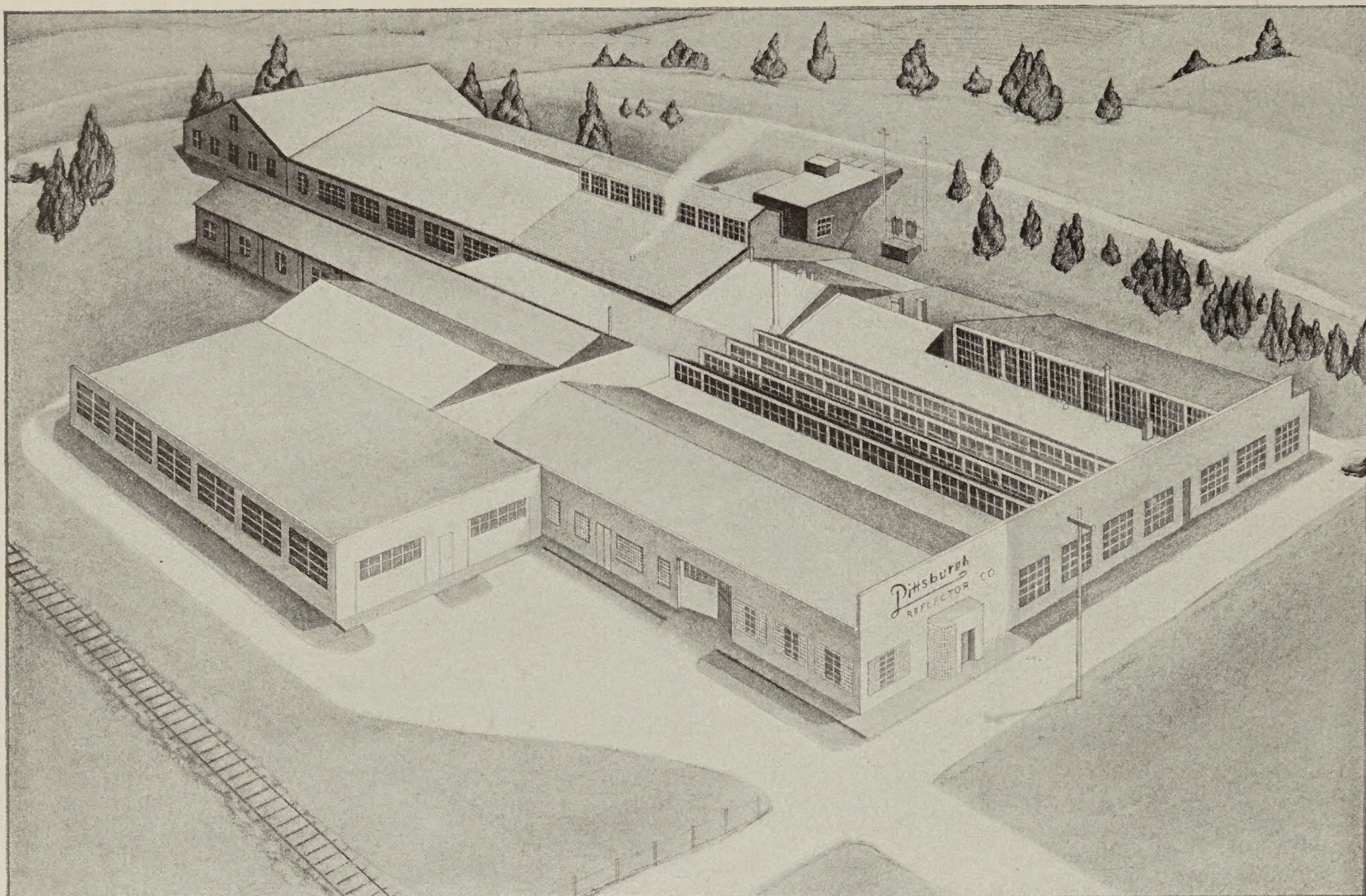
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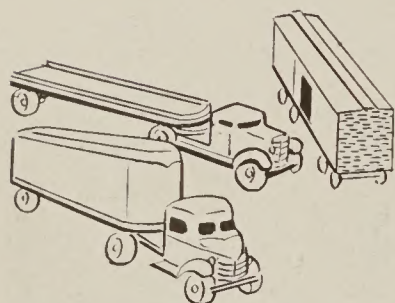




PITTSBURGH REFLECTOR COMPANY

Plant: Irwin, Pa.

THE PLANT BEHIND THE PRODUCT



The Pittsburgh Reflector Company is a national concern with sales offices in all principal cities of the United States. A complete glass, metal-fabricating and processing plant produces a line of lighting equipment which includes thousands of items for use with both in-

candescent and fluorescent lamps.

This modern, well-equipped plant is situated in Irwin, Pennsylvania, at the western terminus of the famous Pennsylvania Turnpike and on the main-line of the Pennsylvania Railroad. Visitors are always welcome. Here they can see for themselves the well balanced organization — competent and highly developed in every department — responsible for the high degree of quality and dependability that have made Perma-reflectors the preference of lighting users everywhere.

The Pittsburgh Reflector Company — through its forerunner, the Prismatic Mirror and Reflector Company — was established in 1910. The original company consisted of a small processing plant located in Pittsburgh, Pennsylvania.

In 1915 the company developed a new and revolutionary process for manufacturing silver-plated glass reflectors. From this new process evolved a reflector capable of withstanding the excessive heat produced by the gas-filled type "C" lamps which had just been introduced. The success and steady growth of Pittsburgh Reflector Company is due principally to

the outstanding performance of this basic product — now known throughout the world as the "Perma-reflecter."

Perma-reflectors' wide acceptance is based on merit. Skilled workmanship, the fruit of many years of experience and training, contributes greatly to the quality of Perma-reflecter Products. Many of the workers have been with Pittsburgh Reflector Company since its inception. These veterans and our younger craftsmen know their jobs and take a personal interest in the achievements of the company.

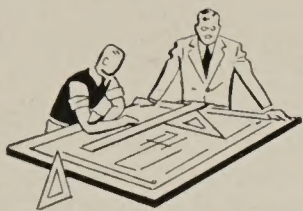
Every process that goes into the manufacturing of Perma-reflecter Products is performed in our plant. Such plant facilities, under our direct supervision, have definite advantages. They enable us to rigidly control every step from raw material to finished product. Each worker is aware of every process which precedes and follows his own particular job.

Here, briefly, is the manner we control production and "Perma-reflecter" quality! Every reflector is hand-blown, not machine-made like bottles.

We melt our own glass, make our own molds. Because we manufacture only one crystal glass we are able to devote our time and energy to developing and producing products of unsurpassed quality. Every Perma-reflecter operation is subject to supervision by veteran craftsmen. Extensive precautions in production, packaging and shipping make it virtually impossible for a defective unit to reach a customer.

Pittsburgh Reflector Company maintains sales offices in all principal cities throughout the United States — and its products are distributed by electrical wholesalers throughout the world.

DESIGNING AND ENGINEERING FACILITIES



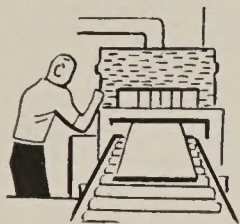
The Designing, Engineering and Research Departments of Pittsburgh Reflector Company serve as important adjuncts to the manufacture of Perma-reflector Products. These departments — manned by experts — are constantly seeking new high standards in design, beauty, efficiency, quality and economy in lighting equipment. As a result of their work, many new and original features in lighting performance and equipment construction have been developed and introduced.

Pittsburgh Reflector Company also retains the services of an internationally known firm of consulting designing engineers on new products.

Various types of lighting installations require special auxiliary equipment to adapt Permareflectors to local architectural conditions. That, too, is a job for our designing and engineering staffs. There is available a complete line of auxiliary equipment especially designed by our engineers to permit Permareflectors to perform with maximum efficiency.

We want the users of Permareflectors to get the maximum efficiency from their Perma-reflector Lighting Equipment . . . therefore our Engineering Department is always available regarding any lighting problems the user may have.

PRODUCTION FACILITIES



Every process involved in the manufacture of Perma-reflector Lighting Equipment takes place in Pittsburgh Reflector Company's own plant. Production is therefore rigidly controlled — accurate — and efficient. Let us — to demonstrate the extensiveness of our facilities — examine a few of the steps which go into the making of Perma-reflector Products.

In the manufacture of glass we use only the highest grade raw materials, mechanically mixed to insure a homogenous batch. A specially designed furnace transforms this mixture into a high grade uniform glass.

After being formed and distributed on a blowpipe the glass is placed in an iron mold and skillfully blown to the shape of a reflector. Thorough annealing in an electrically controlled tempering furnace, or "lehr," is the next step — after which excess glass is removed and edges of the reflector are ground smooth and clean.

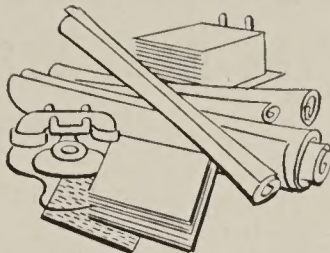
Two layers of metallic silver are deposited on the outer surface, followed by a layer of copper. After being sprayed with two coats of special heat resisting paint, each reflector is baked and severely heat tested in a special oven.

But of course all Perma-reflector Products are not composed entirely of glass. A large portion of our manufacturing space is devoted to a fully equipped, modern sheet metal department, which produces metal housings for glass reflectors, louvers, roundels, stem hangers and numerous auxiliary items. In addition, an entire section of the plant is devoted to the manufacturing of fluorescent luminaires and auxiliary fluorescent equipment. We do the complete metal fabrication job ourselves — and are equipped to handle all metals.

A well equipped machine shop produces all dies, molds, and special tools required in our manufacturing processes. This is an important adjunct to "controlled" production at Pittsburgh Reflector Company, enabling far greater accuracy and efficiency.

The various departments are arranged so the entire plant is one smooth-running production line designed for producing high quality Perma-reflector Lighting Equipment.

RECEIVING THE ORDER



When your order is received, you may be certain that the wheels it sets in motion results in prompt, efficient service. All orders, whether small or large, are handled with equal concern.

All information regarding your order will be carefully correlated. Requirements of the job will be set down in detail. If necessary, working blueprints will be drawn. As always, production will be carefully controlled and checked — "standard" procedure with Pittsburgh Reflector Company.

FINAL DETAILS



We have mentioned the frequent testing and checking of Perma-reflector Products during actual production. This alone makes it virtually impossible for a defective unit to reach a customer. As a final precaution each unit which makes up your order — including all auxiliary equipment — is given a final check by packaging inspectors just

prior to shipment.

Perma-reflector Lighting Equipment is shipped in specially designed cartons which are approved by transportation companies. All possible precautions are taken to prevent damage and delay. Although Pittsburgh Reflector Company cannot control loss or damage of merchandise in transit, we trace shipments upon request and cooperate with customers in having claims adjusted by carriers.

After your shipment of Perma-reflector Equipment has been received — if there are any questions regarding proper use or function, our field engineers will be glad to help you. Although actual installation is out of our hands we want to assist you with your problems — for all Permareflectors must give excellent service.



Church of Incarnation

Brooklyn, N. Y.



PERMAFLECTOR LIGHTING

SELECTING THE MOST EFFICIENT REFLECTING SURFACE

	Absorption
Polished silver, unprotected, new (darkens rapidly — not practical)	Loss
Silver plated glass.....	5%
Nickel, freshly polished (tarnishes rapidly).....	10%
Aluminum (varies with quality and finish).....	40%
Stainless steel.....	20-40%
	60%

From this tabulated data the particular efficiency and adaptability of silver-plated glass is established. But care should be taken in the selection of a silver-plated glass reflector. If the silver-plating is not properly protected the silvered reflecting surface will rapidly deteriorate and lose its efficiency.

Permafectors stay bright. At the end of ten, fifteen, twenty-five or thirty years the reflecting surface of Permafectors is just as bright, just as efficient as when first placed in service.

PERMAFLECTOR "SPECULAR" REFLECTION

The most important problem when planning illumination for any store is that of illuminating merchandise so that it is displayed with maximum sales appeal. The physical characteristics of the merchandise usually determine the method of illumination. In this regard, we wish to stress a salient quality of Permafector Lighting called SPECULAR REFLECTION — which results when the flux of incandescent lamp mounted in the Permafector is reflected from the silvered glass reflecting surface. Such specularly reflected rays of light favorably affect the appearance of certain merchandise.

For example, such articles as diamonds and other precious stones, jewelry, glassware and polished metal objects when

displayed should present a brilliant, sparkling, lustrous beauty. This effect is best obtained by SPECULAR REFLECTION produced by direct incandescent light used with efficient silvered glass reflectors — Permafectors — properly spaced and concealed. The desired effect can be entirely killed or deadened by displaying this type of merchandise under soft, diffused light — such as indirect or diffused incandescent lighting or fluorescent lighting.

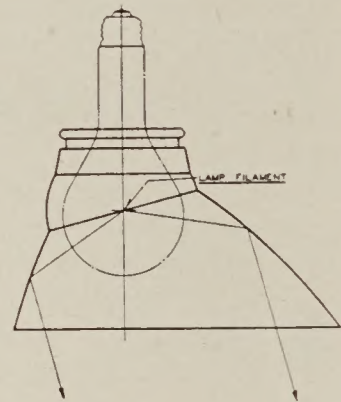
If soft, diffused general illumination is used for creative effects, then specular sources should be used for feature or "plus" lighting.

PERMAFLECTOR "CONTROLLED" LIGHTING

The specular reflecting surface of Permafector silvered glass reflectors provides astounding control of light . . . from the searchlight beam of a concentrating floodlight to the very broad distribution of an indirect reflector. The maximum flux of light is picked up and reflected just where the designer wants it. Only a specular reflector can do this — and Permafectors do it most efficiently.

With Permafectors, asymmetric distribution — so essential for window lighting where light must be directed — is accurate and efficient. The sketch at the right shows how the

Permafector reflects light in a concentrating asymmetric show window reflector. Light is accurately placed where desired. It is controlled completely except for a small amount which necessarily escapes through the neck and that which passes unhindered through the bottom opening. The maximum possible flux of light is controlled by Permafector Reflectors.



THERE IS A PERMAFLECTOR FOR EVERY LIGHTING APPLICATION

Permafector Lighting Equipment is adaptable to all industrial, commercial and institutional lighting applications. Whether you need fluorescent or incandescent illumination or a combination of both — you will find Permafectors the complete answer to all your lighting requirements.

Permafector Lighting Equipment is simple to install, easy to maintain and provides maximum lighting efficiency as well as flexibility of design.

All Permafector Equipment bears the IBEW Union label.



Ohringer Home Furniture Co.
Braddock, Pa.

Harry H. Lefkowitz, Architect
Pittsburgh, Pa.

USE THE PERMAFLECTOR ENGINEERING CONSULTING SERVICE

The services of Pittsburgh Permafector's engineering department are available to customers at no cost. When you need lighting information — consult our field engineers or our engineering department at headquarters in Pittsburgh. Our engineers have a thorough knowledge of lighting. We like having you make use of their service, because we want you to get the most from your Permafector Lighting Equipment.

PERMAFLECTOR LIGHTING

FUNDAMENTALS OF GOOD LIGHTING

It is not practical to set forth any specific rules which apply to the design of every type of lighting installation. To insure satisfactory performance and maximum efficiency individual attention must be given to each problem by a trained and experienced illuminating engineer. It is for this reason that we offer our customers the services of our engineering department as listed on Page Six.

Generally speaking, however, the following factors should be considered when designing a lighting installation:

1. Kind of lighting system.
2. Quantity and quality of illumination required.
3. Type of light source.
4. Correct equipment and installation thereof for efficient light control.

LIGHTING AS PART OF ARCHITECTURAL DESIGN

Leading and progressive architects appreciate the value of light as an important influence on the beauty and utility of their buildings and interiors. Accordingly, they are planning structures using light as an integral part of their designs. No longer is light just a means of illumination. Rather, it has assumed its rightful place alongside brick and mortar, glass and paint as a necessary portion of the basic design.

By thus planning lighting it can be placed and directed where it is needed and desired — and in sufficient amount for it to perform its intended task. This task can be either artistic or functional — or both.

Planned lighting enhances the beauty of any architectural interior or exterior. Moldings, fluted bands or columns, pilasters and walls become alive with glowing richness. Skillful balancing of light and shade accentuates structural lines and three dimensional patterns. In modern architecture planned lighting creates an "organic" decorativeness — a "re-

lated" beauty that is unexcelled.

New architectural practice in planned lighting is founded on functional efficiency. Production, safety, morale and health are strongly affected by lighting. Ease of seeing is important in work or play. Various tasks of seeing require different levels and character of illumination. Planned lighting contributes greatly to functional efficiency by providing proper illumination where and when it is needed.

Modern lighting equipment is the new tool with which the architect achieves designs of distinctive beauty and functional efficiency. No longer does the architect think in terms of lighting fixtures but rather in light effects he wants to create.

Permaflexor Lighting Equipment is designed by engineers who combine a thorough knowledge of lighting with a genuine understanding of architectural practice. The result is a complete line of lighting equipment ideally suited to carry out the objectives of the architect.

INCANDESCENT AND FLUORESCENT LIGHT SOURCES

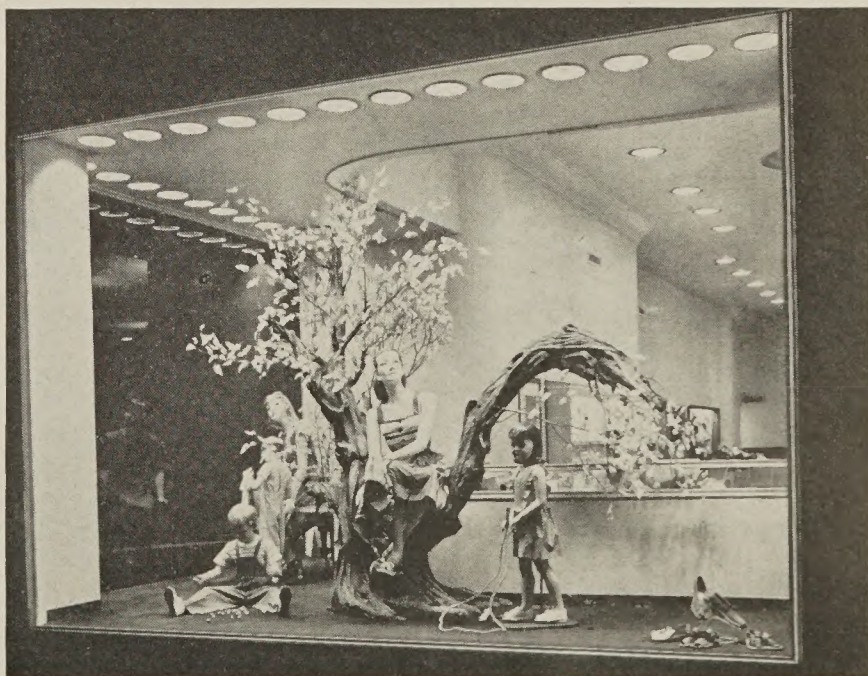
For many years the universally employed light source for most interior and exterior lighting applications was the incandescent filament light. Although the incandescent lamp is still perhaps the most convenient light source ever devised by man, within recent years other methods of lighting have replaced the incandescent lamp in numerous applications in which the newer sources are found to be more efficient. For instance, the mercury lamp is used in factories to a certain extent and the sodium vapor lamp is being used more and more extensively for the illumination of bridges and streets.

The chief rival of the incandescent filament lamp, however, is the fluorescent tube. Since its introduction in recent years, fluorescent lighting has extended itself phenomenally for a great variety of lighting purposes.

Wisdom dictates that the proper light source should be selected for the proper application. Thus, incandescent lighting may be the solution in one application; while in another instance fluorescent serves the purpose best. Still another application will call for a combination of both fluorescent and incandescent light to do the job most adequately. For each light source has its proper place and purpose.

REFER TO PITTSBURGH REFLECTOR COMPANY FLUORESCENT CATALOG

Pittsburgh Reflector Company manufactures a complete line of Fluorescent Luminaires, Troffers and Wiring Devices. Send for the latest Permaflexor **Fluorescent** Lighting Equipment Data.



Joseph Horne & Co.

Mt. Lebanon, Pa.



PERMAFLECTOR LIGHTING

A 10-YEAR GUARANTEE—AN OVER 35-YEAR RECORD

"We unconditionally guarantee to the original purchaser that the backing on Pittsburgh silver plated glass reflectors will not crack, check or peel, and that the silvered reflecting surface will not tarnish, for a period of ten years from date of purchase from us."

The purchaser of Permaflectors has **more** than the

assurance of a responsible manufacturer to replace the equipment if it is defective. He also has the confidence of knowing the product is so good it probably will never have to be replaced . . . a conviction backed by over thirty-five years of faultless production.

Look for the "PERMAFLECTOR" Trademark.

USE THIS CATALOG AS YOUR ENGINEERING DATA BOOK ON LIGHTING

This catalog is more than an enumeration of items. It is an engineering data book and reference book as well. We suggest you refer to it often when planning your lighting installations.

The light distribution curves shown are those obtained with the principal size lamp used with each Permaflector. If a Permaflector is designed for use with more than one lamp, distribution curves are approximately the same for all lamps. Candlepower values vary in proportion to the output of each lamp size. For instance, candlepower values for a 300 watt lamp is approximately 0.6 of the values for a 500 watt lamp.

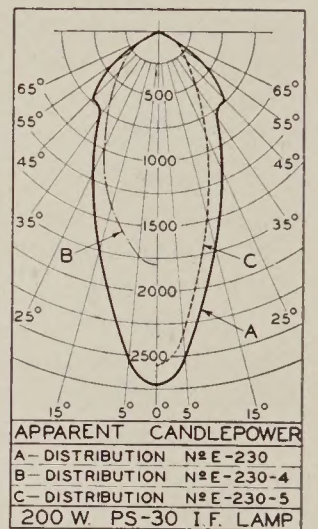
It is hardly feasible to show separate light distribution curves for a Permaflector when used alone and the same Permaflector when equipped with various accessories — such as louvers and stippled glass roundels. Hence, we should like to explain how users may approximate distribution results when these accessories are used.

In the illustration, Curve "A" shows the light distribution of Permaflector No. E-230 and the 200 watt PS-30, inside frosted

lamp. If a stippled glass roundel as employed in Hinged Ceiling Roundel No. 6-B is added, light distribution is as shown by Curve "B". If a concentric louver as used in Hinged Concentric Louver No. 6-B is employed, the result is Curve "C".


It can be seen that the concentric louver does not interfere greatly with downward concentration from the reflector. The stippled roundel broadens distribution somewhat but materially reduces concentration.

In general, therefore, concentric louvers are preferable unless images of the lighting unit in polished surfaces are objectionable. In that case, stippled roundels perform a better service at some loss in concentration.



SPEAR & COMPANY
Pittsburgh, Pa.

Architect — E. Paul Behles & Associates
Electrical Contractor — Morganstern Elec. Co., Inc.

 PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR SHOW WINDOW LIGHTING

SELECT THE CORRECT REFLECTORS

MANY INSTALLATION ARRANGEMENTS

The four most important factors to be considered in the selection of lighting equipment for show windows are:

1. To locate lamps to illuminate the display.
2. To use light not merely for visibility, but to attract passers-by.
3. To control light ordinarily wasted on the ceiling or sidewalks — redirecting and concentrating it on the display plane.
4. To conceal the light source and thus avoid glare.

The dimensions of the window determine the type of reflector. For example, shallow windows require a reflector of concentrated distribution; deep windows a reflector of broad distribution.

The illustrated chart below is designed to facilitate the selection of the correct Permaflexor for each type of show window.

FLEXIBILITY OF DESIGN

The Permaflexor line of silvered glass reflectors for show window lighting contains many different units — a correctly shaped unit for the lighting of show windows of any type and size.

The flexibility of Permaflexor show window lighting equipment permits many different installation arrangements. Shown on this page are four of the most widely used assemblies, all of which can be easily and quickly installed.

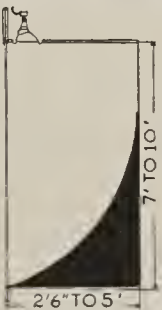

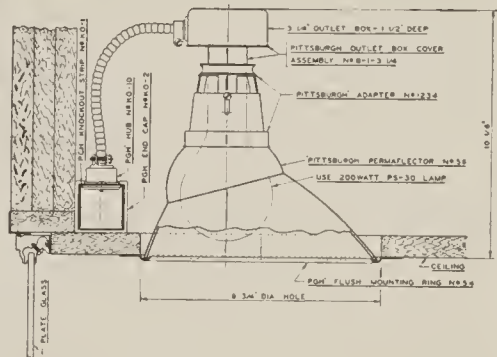
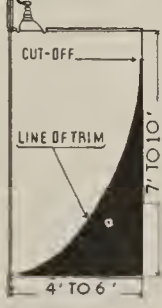

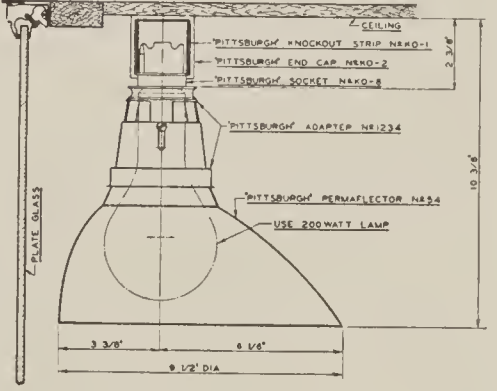




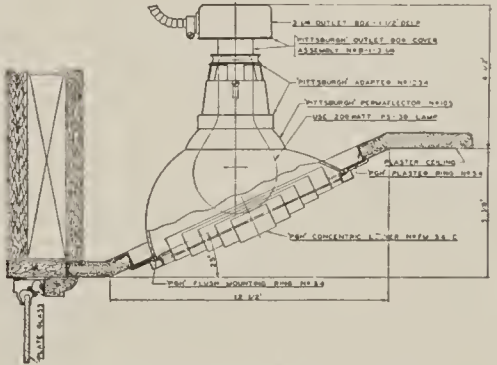
ACCOMMODATE EVERY SIZE OF LAMP

Permaflexor show window lighting equipment includes an efficient reflector for use with any standard PS type lamp from 100 to 500 watts.

DISTRIBUTIONS OF LIGHT

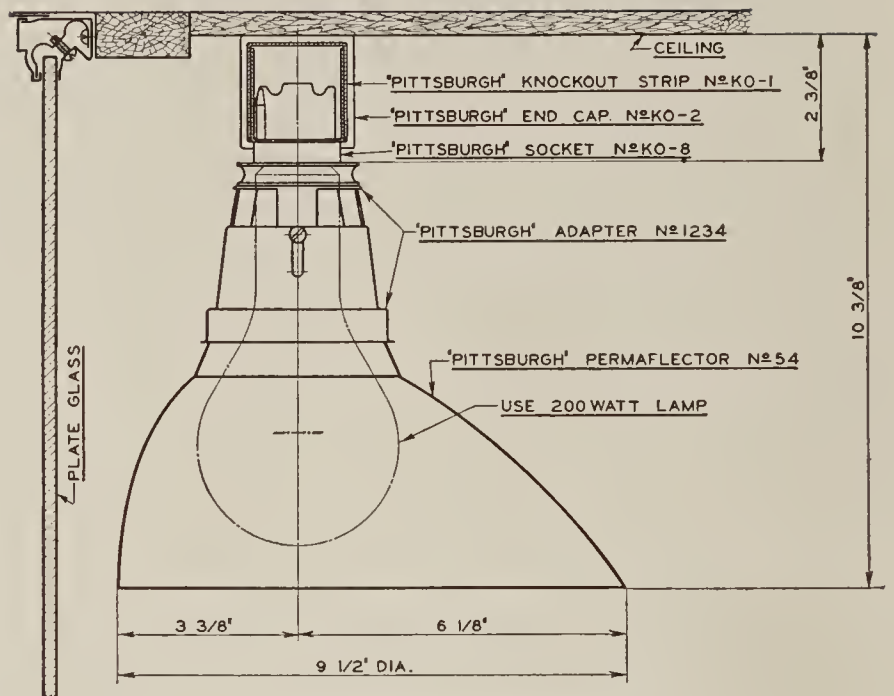
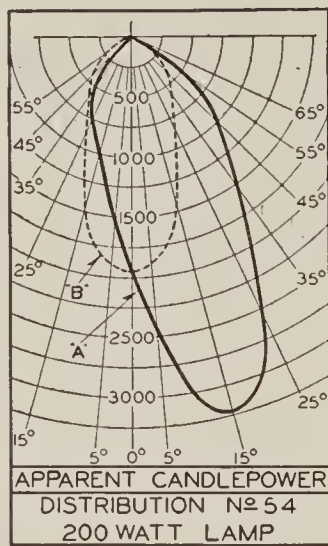
Asymmetric distribution is essential for show windows where the light must be directed from the top and front of the window downward to the display area. Permaflexors are scientifically designed to do this accurately and efficiently. The general asymmetric distributions illustrated in the chart below cover the widest possible range for show window types.

In addition, in many cases supplementary light must be provided. Interior spots and floods or recessed "C" and "E" Permaflexor combinations may be used to advantage.

TYPE OF WINDOW AND DISTRIBUTION	PERMAFLECTORS	INSTALLATION ARRANGEMENTS
 <p>1—INTENSE CONCENTRATION</p>	 <p>Permaflexor No. 56 200 or 150 Watt Lamp</p> <p>Permaflexor No. 57 150 or 100 Watt Lamp</p>	 <p>No. 56—2 Recessed In Ceiling</p>
 <p>2—MEDIUM CONCENTRATION</p>	 <p>Permaflexor No. 54 200 or 150 Watt Lamp</p> <p>Permaflexor No. 55 150 or 100 Watt Lamp</p> <p>Permaflexor No. 555 500 or 300 Watt Lamp</p> <p>Permaflexor No. 112 200 or 150 Watt Lamp</p>	 <p>No. 54 External Mounting</p>
 <p>3—BROAD DISTRIBUTION</p>	 <p>Permaflexor No. 77 100 Watt Lamp</p> <p>Permaflexor No. 85 200 or 150 Watt Lamp</p> <p>Permaflexor No. 99 300 or 200 Watt Lamp</p>	
 <p>4—ANGLE TYPE—CONCENTRATION AT WINDOW LINE WITH MEDIUM DISTRIBUTION</p>	 <p>Permaflexor No. 105 200 or 150 Watt Lamp</p> <p>Permaflexor No. 110 150 or 100 Watt Lamp</p> <p>Permaflexor No. 500 500 or 300 Watt Lamp</p>	 <p>No. 105—2 Recessed In Plaster Ceiling and Louvered</p>



PERMAFLECTOR NO. 54 SERIES



No. 54 External Mounting

PERMAFLECTOR NO. 54-R

Consists of:

Permaflector No. 54-GO and Adapter No. 1234-R for use where grooved porcelain sockets are installed.

Standard Quantity—8

Weight, Approx. 18 lbs.

Retail Price, Each.....\$4.00

CodeSHOFIFORER

Additional Equipment—for use with No. 54-R.

May be Mounted On—Conduit No. 12.

For Colored Lighting—Same as for No. 54.

For Louvered Lighting—Same as for No. 54.

PERMAFLECTOR NO. 54

Consists of:

Permaflector No. 54-GO and Adapter No. 1234.

Standard Quantity—8

Weight, Approx. 18 lbs.

Retail Price, Each.....\$4.00

CodeSHOFIFOR

Additional Equipment—for use with No. 54.

May Be Installed With:

Outlet Box Cover Assembly No. B-1-3/4 or B-1-4.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1.

For Colored Lighting: Use

Color-Lite No. 2 or No. 2-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-54 for external mounting.

Eccentric Louver No. EM-99-CA for external mounting.

COMBINATION NO. 54-2

(For Recessed Installation)

Consists of:

Permaflector No. 54.

Outlet Box Cover Assembly No. B-1-3/4.

Flush Mounting Ring No. 54.

Standard Quantity—8

Weight, Approx. 26 lbs.

Retail Price, Each.....\$4.95

CodeFIFOTU

Ceiling Space Required:

Space Above Ceiling Line—10 1/8 inches (Adapter Extended).

Opening to be Cut in Ceiling, Circular—Diam., 9 3/4 inches.

Additional Equipment—for use with No. 54-2.

For Plaster Ceiling—Use Plaster Ring No. 54.

For Colored Lighting—Use Color-Lite No. 21 or No. 21-DB.

For Ceiling Roundel (Not Hinged)—Use Ceiling Roundel No. 21 with or without Wire Guard No. WG-6.

For Louvered Lighting—Use

Parallel Louver No. FM-54.

Eccentric Louver No. FM-99-CA.

COMBINATION NO. 54-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. 54.

Outlet Box Cover Assembly No. B-1-3/4.

Hinged Ceiling Roundel No. 6-B.

Standard Quantity—8

Weight, Approx. 45 lbs.

Retail Price, Each.....\$9.05

CodeFIFOFO

Ceiling Space Required:

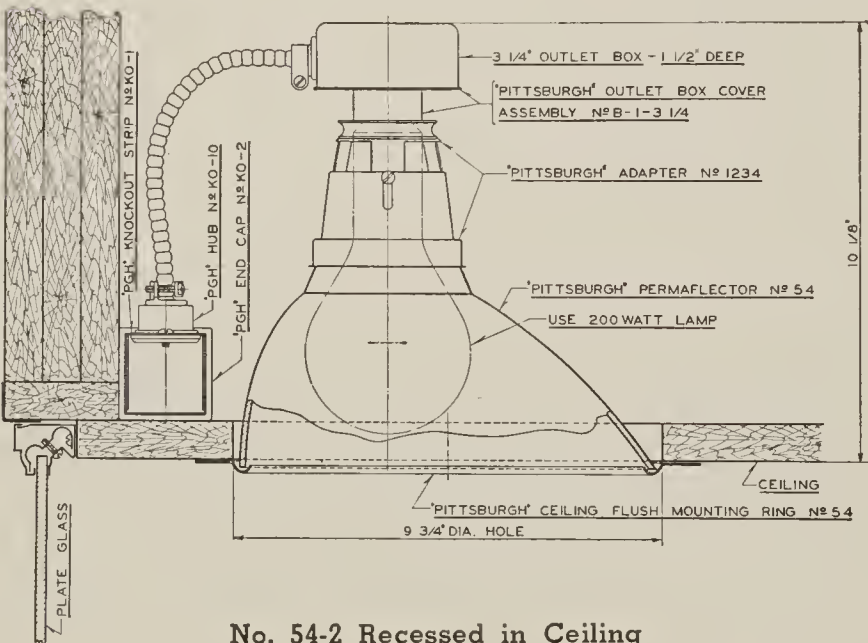
Space Above Ceiling Line—10 1/2 inches (Adapter Extended).

Opening to be Cut in Ceiling, Circular—Diam., 10 3/4 inches.

Additional Equipment—for use with No. 54-4.

For Plaster Ceiling—Use Plaster Ring No. 6-B.

For Protection of Roundel—Use Wire Guard No. WG-6.



No. 54-2 Recessed in Ceiling

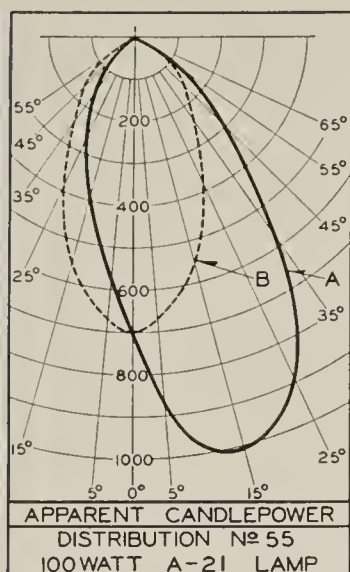


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. 55 SERIES



No. 55



Application—Primarily for shallow windows, 4 to 9 feet high; medium trim; island windows; or windows with upper portion of background of glass. Also excellent for other display lighting such as rug racks, quotation boards, building fronts and entrances; choirs and sanctuaries of churches, handball, squash, indoor badminton or tennis courts; art galleries and museums and indirect cove lighting.

Minimum Spacings: for

Mounting on Conduit No. 1—9 inches on centers.

Mounting on Knockout Strip No. KO-1—9 inches on centers.

Dimensions:

Height with Adapter No. 1256 Extended—6⁷/₈ inches.

Height with Adapter No. 1256 Compressed—6³/₈ inches.

Height Permaflector No. 55-GO—4¹/₈ inches.

Bottom Opening Circular—Diameter, 8¹/₂ inches.

Lamp Size—

100 watt A-21, Adapter in compressed position, with ⁵/₈" socket extension.

150 watt PS-25, Adapter in extended position.

PERMAFLECTOR NO. 55

Consists of:

Permaflector No. 55-GO and Adapter No. 1256.

Standard Quantity—10

Weight, Approx. 18 lbs.

Retail Price, Each.....\$3.50

CodeSHOFIFI

Additional Equipment—for use with No. 55.

May Be Installed With:

Outlet Box Cover Assembly No. B-1-3¹/₄ or B-1-4.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1.

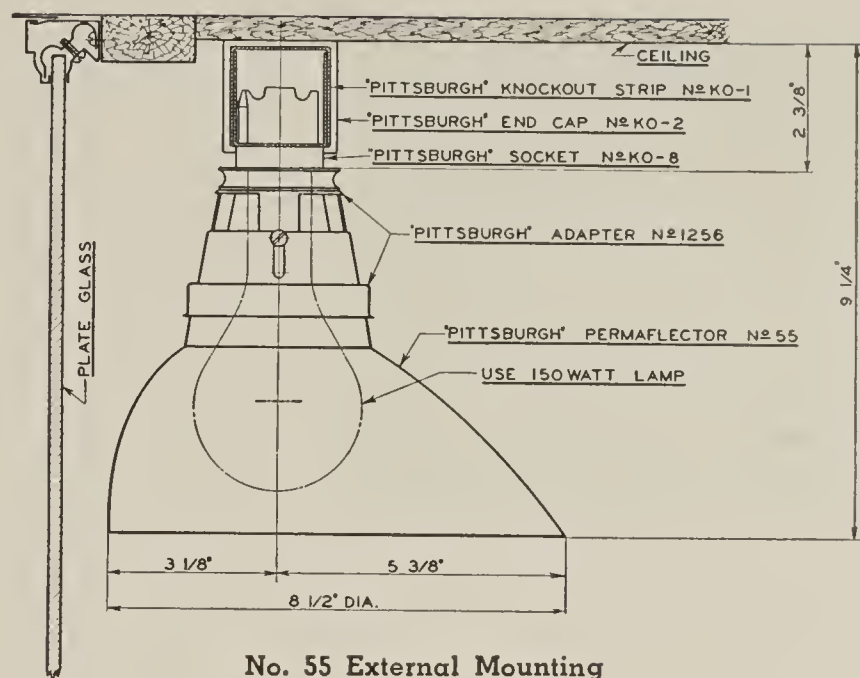
For Colored Lighting: Use

Color-Lite No. 6 or No. 6-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-55 for external mounting.

Eccentric Louver No. EM-88-CA for external mounting.



No. 55 External Mounting

PERMAFLECTOR NO. 55-R

Consists of:

Permaflector No. 55-GO and Adapter No. 1256-R for use where grooved porcelain sockets are installed.

Standard Quantity—10

Weight, Approx. 18 lbs.

Retail Price, Each.....\$3.50

CodeSHOFIFI

Additional Equipment—for use with No. 55-R.

For Colored Lighting—Same as for No. 55.

For Louvered Lighting—Same as for No. 55.

COMBINATION NO. 55-2

(For Recessed Installation)

Consists of:

Permaflector No. 55.

Outlet Box Cover Assembly No. B-1-3¹/₄.

Flush Mounting Ring No. 55.

Standard Quantity—10

Weight, Approx. 25 lbs.

Retail Price, Each.....\$4.37

CodeFIFITU

Ceiling Space Required:

Space Above Ceiling Line—9¹/₈ inches (Adapter Extended).

Opening to be Cut in Ceiling, Circular—Diam., 8³/₄ inches.

Additional Equipment—for use with No. 55-2.

For Plaster Ceiling—Use Plaster Ring No. 55-A.

For Colored Lighting—Use Color-Lite No. 61 or No. 61-DB.

For Ceiling Roundel (Not Hinged)—Use Ceiling Roundel No. 62 with or without Wire Guard No. WG-1.

For Louvered Lighting—Use

Parallel Louver No. FM-55.

Eccentric Louver No. FM-88-CA.

COMBINATION NO. 55-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. 55.

Outlet Box Cover Assembly No. B-1-3¹/₄.

Hinged Ceiling Roundel No. 1-B.

Standard Quantity—10

Weight, Approx. 45 lbs.

Retail Price, Each.....\$7.70

CodeFIFIFU

Ceiling Space Required:

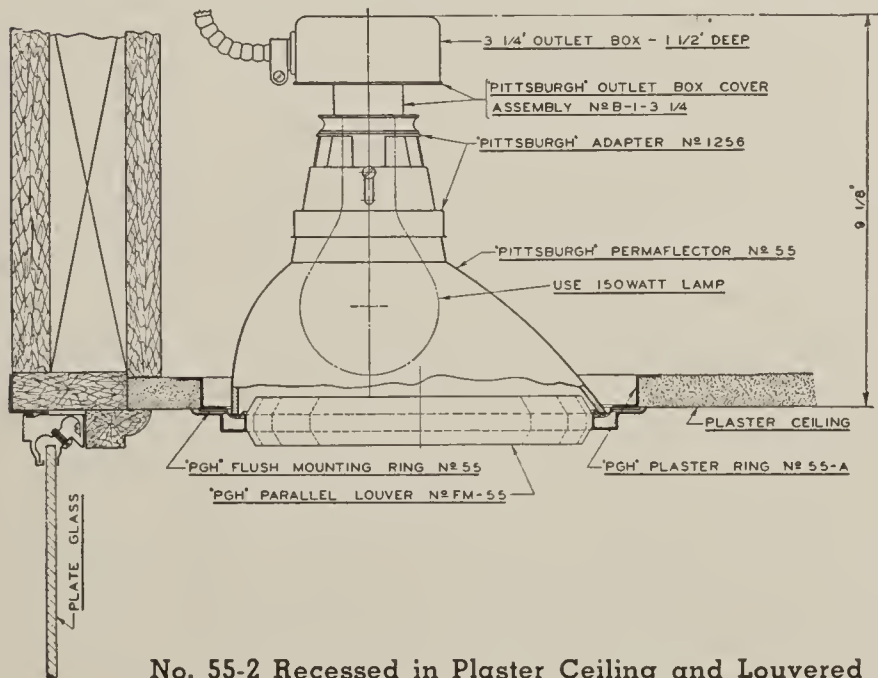
Space Above Ceiling Line—9¹/₂ inches (Adapter Extended).

Opening to be Cut in Ceiling, Circular—Diam., 9³/₄ inches.

Additional Equipment—for use with No. 55-4.

For Plaster Ceiling—Use Plaster Ring No. 1-B.

For Protection of Roundel—Use Wire Guard No. WG-1.



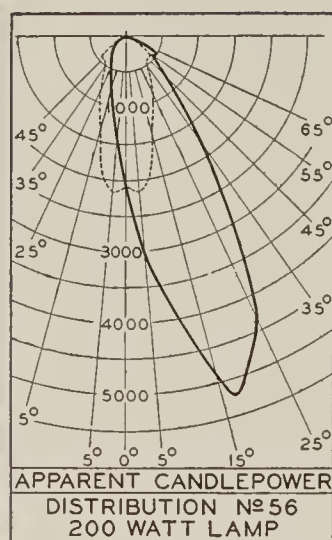
No. 55-2 Recessed in Plaster Ceiling and Louvered



PERMAFLECTOR NO. 56 SERIES



No. 56



Application—Primarily for high and very shallow windows, height from two to three times the depth, or windows in which the display is placed low in the window, as for instance jewelry and shoe windows. Excellent for narrow island windows installed around the four sides thereof. Also good for other display lighting service such as rug racks, quotation boards, building fronts and entrances; choirs and sanctuaries of churches; handball, squash, indoor badminton or tennis courts; art galleries and museums; and indirect cove lighting.

Minimum Spacings: for

Mounting on Conduit No. 1—10½ inches on centers.

Mounting on Knockout Strip No. KO-1—12 inches on centers.

Dimensions:

Height with Adapter No. 1234 Extended—8 inches.

Height with Adapter No. 1234 Compressed—7½ inches.

Height Permaflector No. 54-GO—5¼ inches.

Bottom Opening Circular—Diameter, 9½ inches.

Lamp Size—

150 watt PS-25, Adapter in compressed position.

200 watt PS-30, Adapter in extended position.

PERMAFLECTOR NO. 56

Consists of:

Permaflector No. 56-GO and Adapter No. 1234.

Standard Quantity—8

Weight, Approx. 18 lbs.

Retail Price, Each.....\$4.00

CodeSHOFISIX

Additional Equipment—for use with No. 56.

May Be Installed With:

Outlet Box Cover Assembly No. B-1-3¼ or B-1-4.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1.

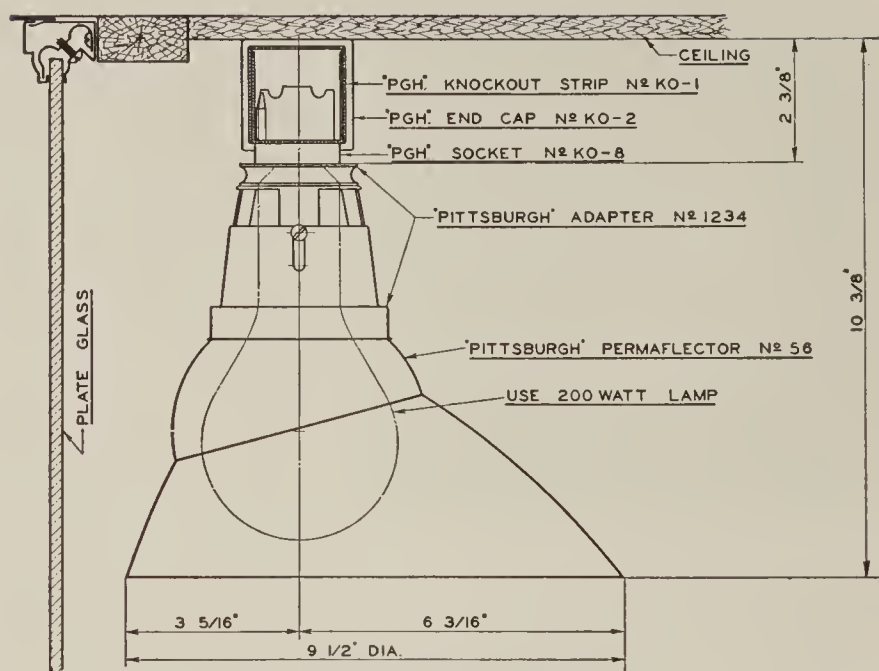
For Colored Lighting: Use

Color-Lite No. 2 or No. 2-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-54 for external mounting.

Eccentric Louver No. EM-99-CA for external mounting.



No. 56 External Mounting

PERMAFLECTOR NO. 56-R

Consists of:

Permaflector No. 56-GO and Adapter No. 1234-R for use where grooved porcelain sockets are installed.

Standard Quantity—8

Weight, Approx. 18 lbs.

Retail Price, Each.....\$4.00

CodeSHOFISIXER

Additional Equipment—for use with No. 56-R.

For Colored Lighting—Same as for No. 56.

For Louvered Lighting—Same as for No. 56.

COMBINATION NO. 56-2

(For Recessed Installation)

Consists of:

Permaflector No. 56.

Outlet Box Cover Assembly No. B-1-3¼.

Flush Mounting Ring No. 54.

Standard Quantity—8

Weight, Approx. 26 lbs.

Retail Price, Each.....\$4.95

CodeFISIKTU

Ceiling Space Required:

Space Above Ceiling Line—10½ inches (Adapter Extended).

Opening to be Cut in Ceiling, Circular—Diam., 9¾ inches.

Additional Equipment—for use with No. 56-2.

For Plaster Ceiling—Use Plaster Ring No. 54.

For Colored Lighting—Use Color-Lite No. 21 or No. 21-DB.

For Ceiling Roundel (Not Hinged)—Use Ceiling Roundel No. 21 with or without Wire Guard No. WG-6.

For Louvered Lighting—Use

Parallel Louver No. FM-54.

Eccentric Louver No. FM-99-CA.

COMBINATION NO. 56-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. 56.

Outlet Box Cover Assembly No. B-1-3¼.

Hinged Ceiling Roundel No. 6-B.

Standard Quantity—8

Weight, Approx. 44 lbs.

Retail Price, Each.....\$9.05

CodeFISIKFO

Ceiling Space Required:

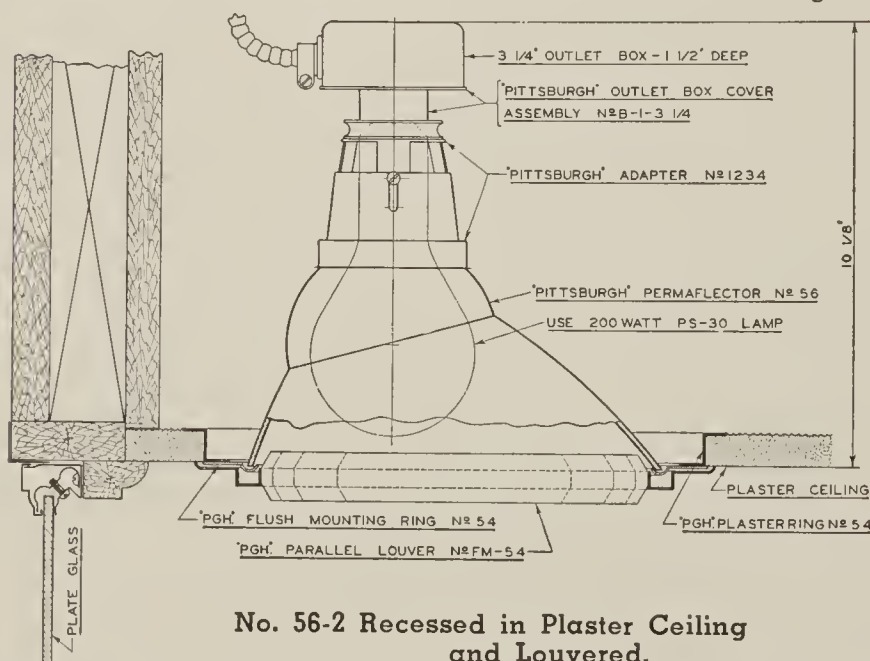
Space Above Ceiling Line—10½ inches (Adapter Extended).

Opening to be Cut in Ceiling, Circular—Diam., 10¾ inches.

Additional Equipment—for use with No. 56-4.

For Plaster Ceiling—Use Plaster Ring No. 6-B.

For Protection of Roundel—Use Wire Guard No. WG-6.



No. 56-2 Recessed in Plaster Ceiling and Louvered.

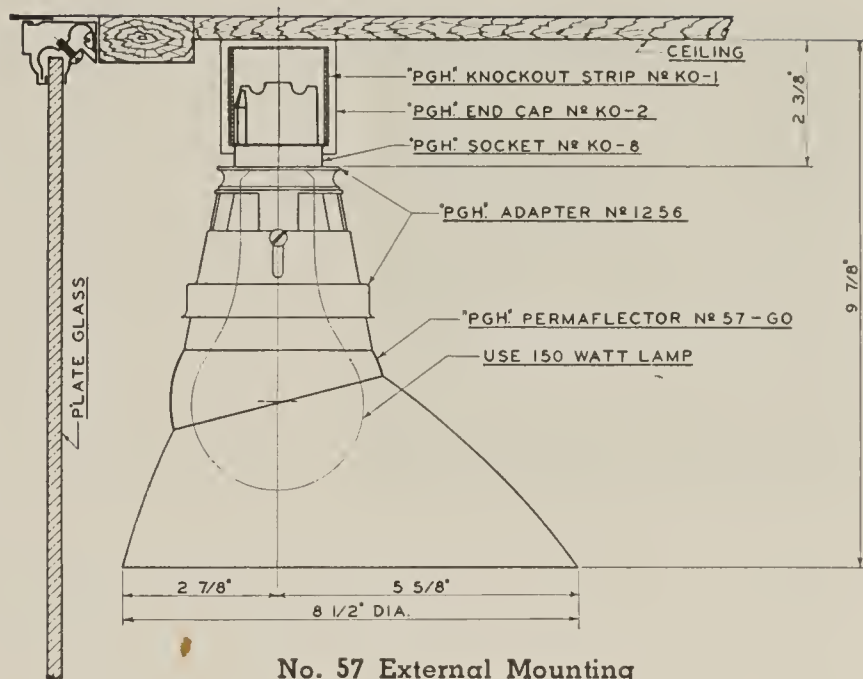
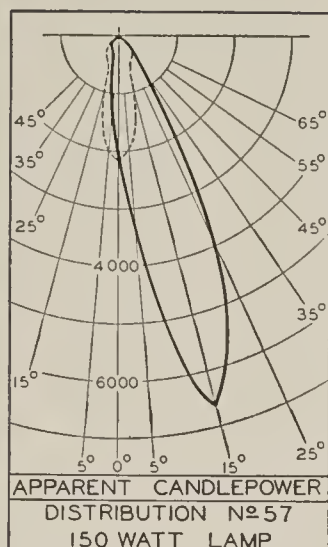


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. 57 SERIES



An Asymmetric Spot Reflector.



PERMAFLECTOR NO. 57-R

Consists of:

Permaflector No. 57-GO and Adapter No. 1256-R for use where grooved porcelain sockets are installed.

Standard Quantity—10

Weight, Approx. 17 lbs.

Retail Price, Each\$3.50

CodeSHOFISEVER

Additional Equipment—for use with No. 57-R.

For Colored Lighting—Same as for No. 57.

For Louvered Lighting—Same as for No. 57.

COMBINATION NO. 57-2

(For Recessed Installation)

Consists of:

Permaflector No. 57.

Outlet Box Cover Assembly No. B-1-3 1/4.

Flush Mounting Ring No. 55.

Standard Quantity—10

Weight, Approx. 24 lbs.

Retail Price, Each\$4.37

CodeFISETU

Ceiling Space Required:

Space Above Ceiling Line—9 3/4 inches. (Adapter Extended)
Opening to be Cut in Ceiling, Circular—Diam., 8 3/4 inches.

Additional Equipment—for use with No. 57-2.

For Plaster Ceiling—Use Plaster Ring No. 55-A.

For Colored Lighting—Use Color-Lite No. 61 or No. 61-DB.

For Ceiling Roundel (Not Hinged)—Use Ceiling Roundel No. 62 with or without Wire Guard No. WG-1.

For Louvered Lighting: Use

Parallel Louver—No. FM-55.

Eccentric Louver—No. FM-88-CA.

COMBINATION NO. 57-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. 57.

Outlet Box Cover Assembly No. B-1-3 1/4.

Hinged Ceiling Roundel No. 1-B.

Standard Quantity—10

Weight, Approx. 44 lbs.

Retail Price, Each\$7.70

CodeFISEFO

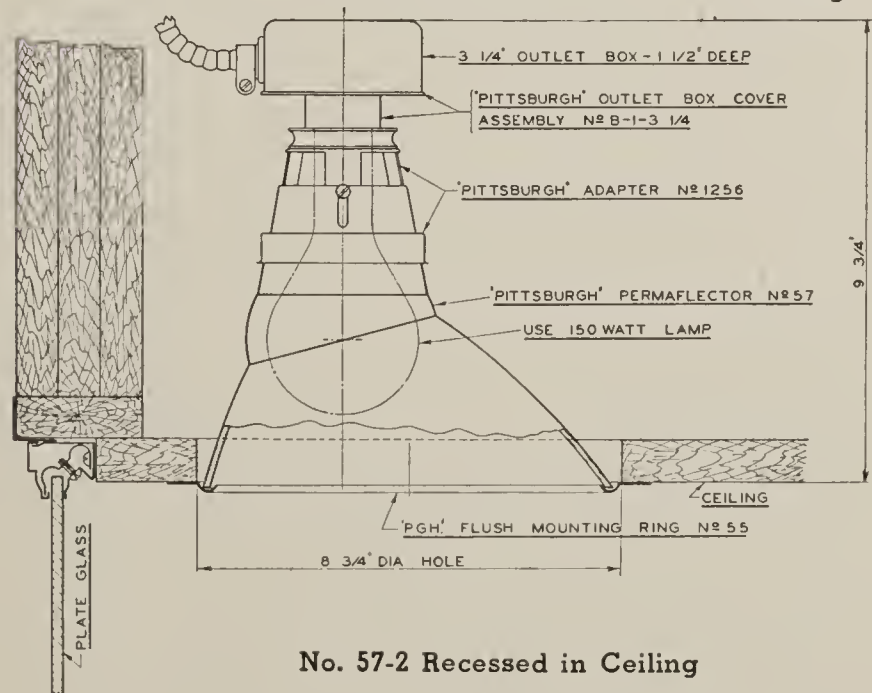
Ceiling Space Required:

Space Above Ceiling Line—10 1/8 inches. (Adapter Extended)
Opening to be Cut in Ceiling, Circular—Diam., 9 3/4 inches.

Additional Equipment—for use with No. 57-4.

For Plaster Ceiling—Use Plaster Ring No. 1-B.

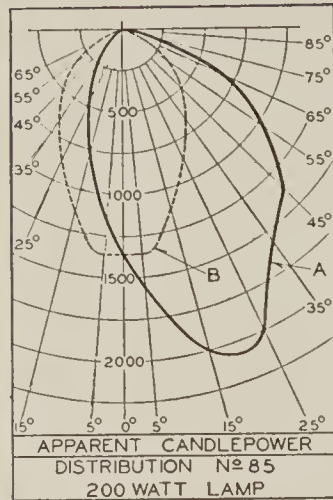
For Protection of Roundel—Use Wire Guard No. WG-1.



PERMAFLECTOR NO. 85 SERIES



No. 85



Application—Permaflector No. 85, when installed flush in the ceiling, illuminates the full height of the background without the sharp cut-off of the more concentrating reflectors Nos. 55, 54, 57. Another application of No. 85 is for indirect lighting from wall urns, coves, columns and indirect floor lamps.

Minimum Spacings: for

Mounting on Conduit No. 1—9 inches on centers.

Mounting on Knockout Strip No. KO-1—9 inches on centers.

Dimensions:

Height with Adapter No. 1234 Extended—7 1/2 inches.

Height with Adapter No. 1234 Compressed—6 1/8 inches.

Height Permaflector No. 85-GO—4 1/8 inches.

Bottom Opening Circular—Diameter, 8 1/2 inches.

Lamp Size—

150 watt PS-25, Adapter in compressed position.

200 watt PS-30, Adapter in extended position.

PERMAFLECTOR NO. 85

Consists of:

Permaflector No. 85-GO and Adapter No. 1234.

Standard Quantity—6

Weight, Approx. 12 lbs.

Retail Price, Each.....\$4.00

CodeSHOATFI

Additional Equipment—for use with No. 85.

May Be Installed With:

Outlet Box Cover Assembly No. B-1-3 1/4 or B-1-4.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1.

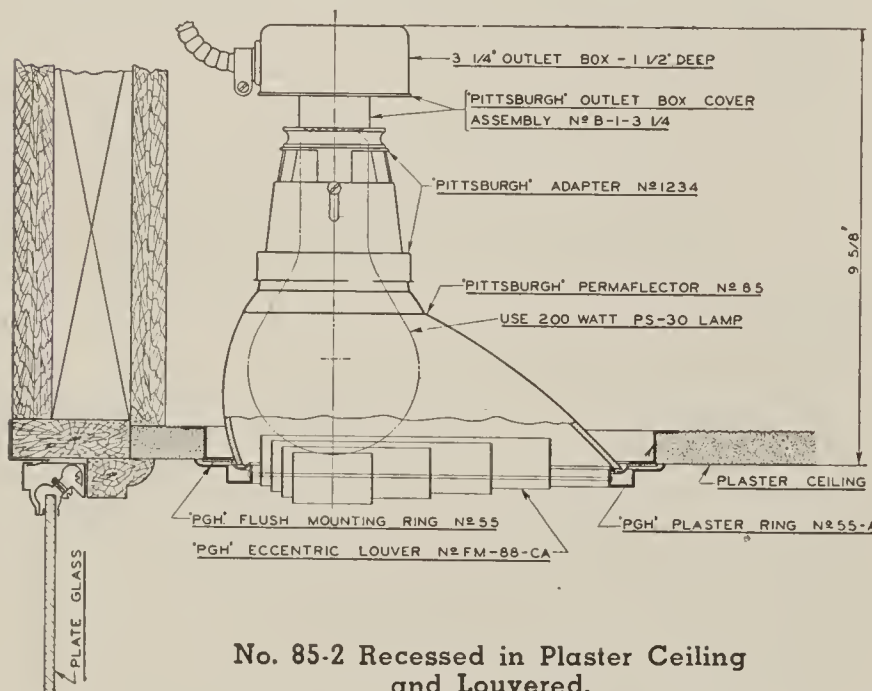
For Colored Lighting: Use

Color-Lite No. 6 or No. 6-DB for external mounting.

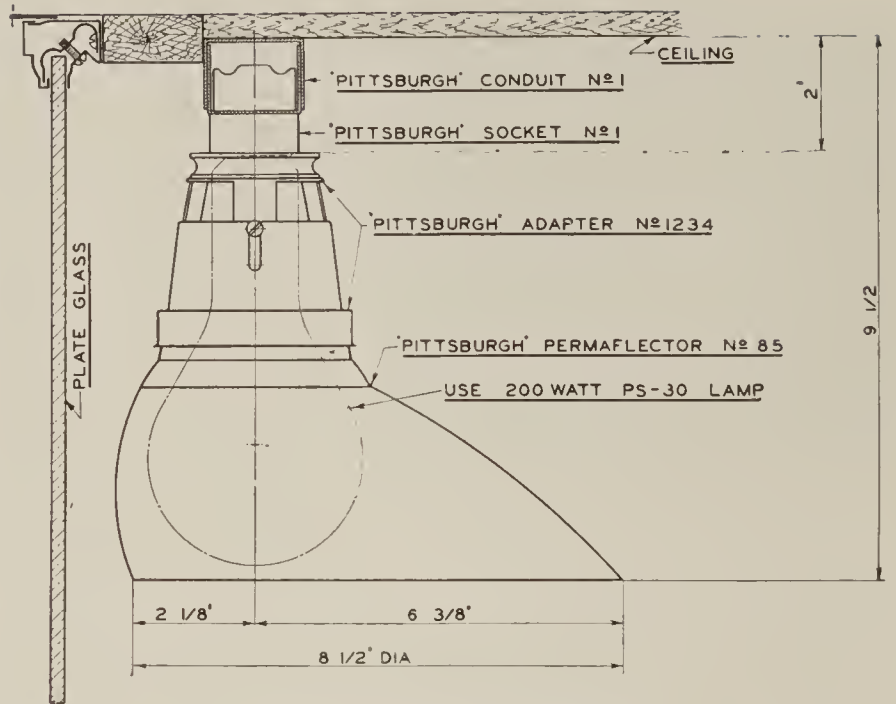
For Louvered Lighting: Use

Parallel Louver No. EM-55 for external mounting.

Eccentric Louver No. EM-88-CA for external mounting.



No. 85-2 Recessed in Plaster Ceiling and Louvered.



No. 85 External Mounting

PERMAFLECTOR NO. 85-R

Consists of:

Permaflector No. 85-GO and Adapter No. 1234-R for use where grooved porcelain sockets are installed.

Standard Quantity—6

Weight, Approx. 12 lbs.

Retail Price, Each.....\$4.00

CodeSHOATFIAR

Additional Equipment—for use with No. 85-R.

For Colored Lighting—Same as for No. 85.

For Louvered Lighting—Same as for No. 85.

COMBINATION NO. 85-2

(For Recessed Installation)

Consists of:

Permaflector No. 85.

Outlet Box Cover Assembly No. B-1-3 1/4.

Flush Mounting Ring No. 55.

Standard Quantity—6

Weight, Approx. 17 lbs.

Retail Price, Each.....\$4.87

CodeATFITU

Ceiling Space Required:

Space Above Ceiling Line—9 5/8 inches (Adapter Extended).

Opening to be Cut in Ceiling, Circular—Diam., 8 7/8 inches.

Additional Equipment—for use with No. 85-2.

For Plaster Ceiling—Use Plaster Ring No. 55-A.

For Colored Lighting—Use Color-Lite No. 61 or No. 61-DB.

For Ceiling Roundel (Not Hinged)—Use Ceiling Roundel No. 62 with or without Wire Guard No. WG-1.

For Louvered Lighting—Use

Parallel Louver No. FM-55 for external mounting.

Eccentric Louver No. FM-88-CA for external mounting.

COMBINATION NO. 85-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. 85.

Outlet Box Cover Assembly No. B-1-3 1/4.

Hinged Ceiling Roundel No. 1-B.

Standard Quantity—6

Weight, Approx. 30 lbs.

Retail Price, Each.....\$8.20

CodeATFIFO

Ceiling Space Required:

Space Above Ceiling Line—10 inches (Adapter Extended).

Opening to be Cut in Ceiling, Circular—Diam., 9 3/4 inches.

Additional Equipment—for use with No. 85-4.

For Plaster Ceiling—Use Plaster Ring No. 1-B.

For Protection of Roundel—Use Wire Guard No. WG-1.

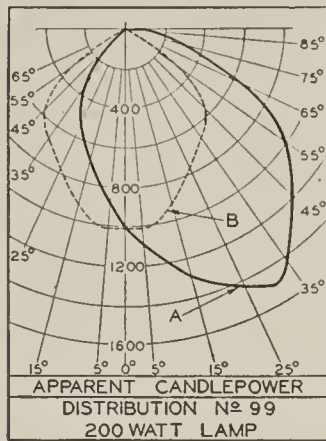


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. 99 SERIES



No. 99



Application—Permaflector No. 99, when installed flush in the ceiling, illuminates the full height of the background without the sharp cut-off of the more concentrating reflectors Nos. 55, 54, and 57. Another application of No. 99 is for indirect lighting from wall urns, coves, columns and indirect floor lamps.

Minimum Spacings: for

Mounting on Conduit No. 1—10 1/2 inches on centers.
Mounting on Knockout Strip No. KO-1—12 inches on centers.

Dimensions:

Height with Adapter No. 1256 Compressed—8 inches.
Height Permaflector No. 990-GO—6 1/2 inches.
Bottom Opening Circular—Diameter, 9 1/2 inches.

Lamp Size—

200 watt PS-30 or 300 watt PS-35 Medium Base, Adapter in Compressed Position.

PERMAFLECTOR NO. 99

Consists of:

Permaflector No. 990-GO and Adapter No. 1256.

Standard Quantity—4

Weight, Approx. 11 lbs.

Retail Price, Each.....\$4.50

CodeSHONINE

Additional Equipment—for use with No. 99.

May Be Installed With:

Outlet Box Cover Assembly No. B-1-3 1/4 or B-1-4.

May Be Mounted On:

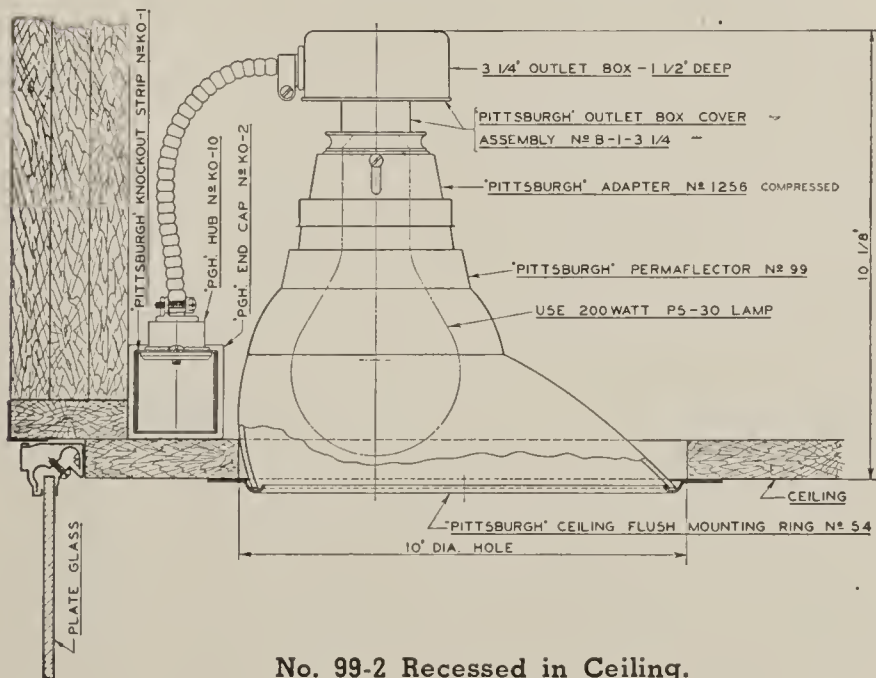
Conduit No. 1 or Knockout Strip No. KO-1.

For Colored Lighting: Use

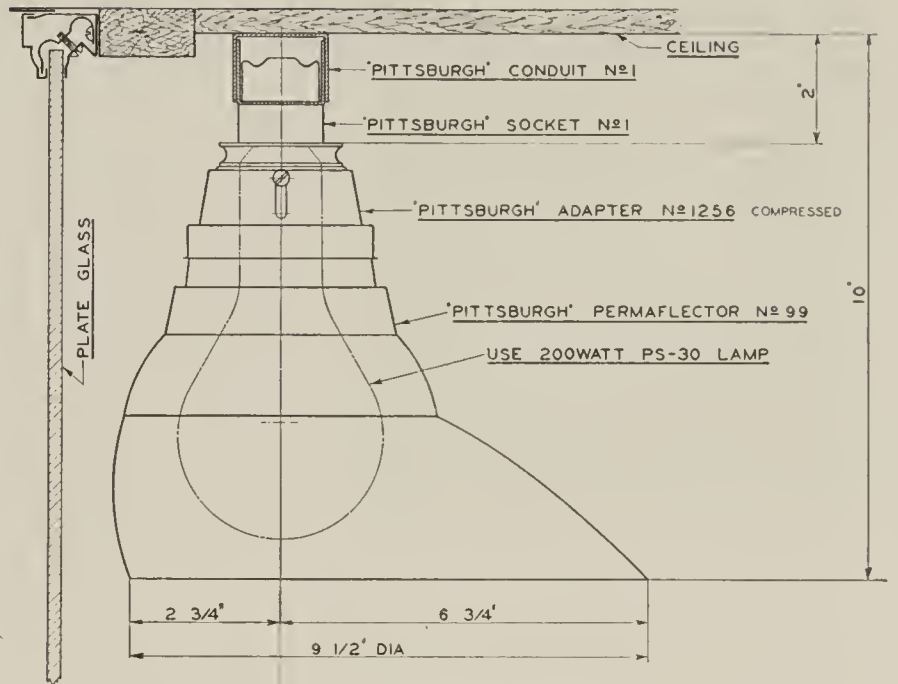
Color-Lite No. 2 or No. 2-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-54 for external mounting.
Eccentric Louver No. EM-99-CA for external mounting.



No. 99-2 Recessed in Ceiling.



No. 99 External Mounting.

PERMAFLECTOR NO. 99-R

Consists of:

Permaflector No. 990-GO and Adapter No. 1256-R for use where grooved porcelain sockets are installed.

Standard Quantity—4

Weight, Approx. 11 lbs.

Retail Price, Each.....\$4.50

CodeSHONNER

Additional Equipment—for use with No. 99-R.

For Colored Lighting—Same as for No. 99.

For Louvered Lighting—Same as for No. 99.

COMBINATION NO. 99-2

(For Recessed Installation)

Consists of:

Permaflector No. 99.

Outlet Box Cover Assembly No. B-1-3 1/4.

Flush Mounting Ring No. 54.

Standard Quantity—4

Weight, Approx. 15 lbs.

Retail Price, Each.....\$5.45

CodeNINITU

Ceiling Space Required:

Space Above Ceiling Line—10 1/2 in. (Adapter Compressed).
Opening to be Cut in Ceiling, Circular—Diam., 10 inches.

Additional Equipment—for use with No. 99-2.

For Plaster Ceiling—Use Plaster Ring No. 54.

For Colored Lighting—Use Color-Lite No. 21 or No. 21-DB.

For Ceiling Roundel (Not Hinged)—Use Ceiling Roundel

No. 21 with or without Wire Guard No. WG-6.

For Louvered Lighting—Use

Parallel Louver No. FM-54.

Eccentric Louver No. FM-99-CA.

COMBINATION NO. 99-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. 99.

Outlet Box Cover Assembly No. B-1-3 1/4.

Hinged Ceiling Roundel No. 6-B.

Standard Quantity—4

Weight, Approx. 25 lbs.

Retail Price, Each.....\$9.55

CodeNINIFO

Ceiling Space Required:

Space Above Ceiling Line—10 1/2 in. (Adapter Compressed).
Opening to be Cut in Ceiling, Circular—Diam., 10 3/4 inches.

Additional Equipment—for use with No. 99-4.

For Plaster Ceiling—Use Plaster Ring No. 6-B.

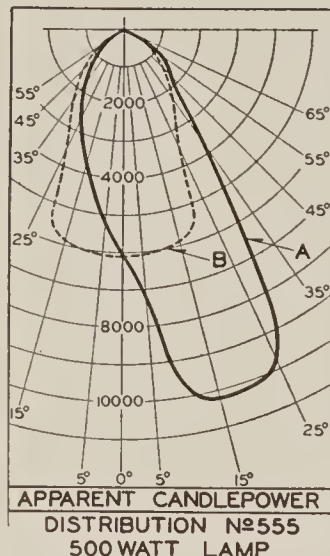
For Protection of Roundel—Use Wire Guard No. WG-6.



PERMAFLECTOR NO. 555 SERIES



No. 555



Application—Primarily for shallow windows 8 to 16 feet high; island windows; flush mounting. It also serves the various applications of No. 55 and No. 54, where a higher wattage is required because of greater elevation.

Minimum Spacings: for

Mounting on Conduit No. 6—14 inches on centers.

Mounting on Knockout Strip No. KO-1—15 inches on centers.

Dimensions:

Height Permaflector No. 555-GO—8 1/8 inches.

Bottom Opening Circular—Diameter, 12 1/2 inches.

Lamp Size—

500 watt PS-40;

300 watt PS-35.

PERMAFLECTOR NO. 555

Consists of:

Permaflector No. 555-GO.

Outlet Box Cover Assembly No. B-3.

Holder No. M-3.

Attaches to any standard 4-inch Outlet Box 1 5/8 inches deep.

Standard Quantity—1

Weight, Approx. 7 lbs.

Retail Price, Each

Permaflector No. 555.....\$9.25

Permaflector No. 555-GO (Glass Only).....\$7.40

Code: Permaflector No. 555.....FIFITIFI

Permaflector No. 555-GO.....FIFITIFGLA

Additional Equipment—for use with No. 555

May Be Mounted On:

Conduit No. 6, in which case discard outlet box cover.

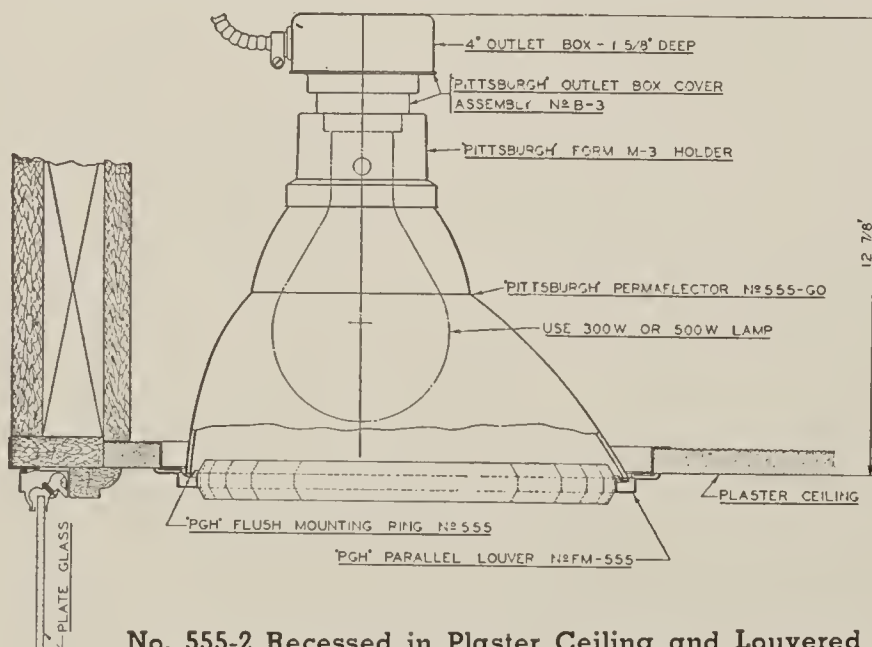
For Colored Lighting: Use

Color-Lite No. 8 for external mounting.

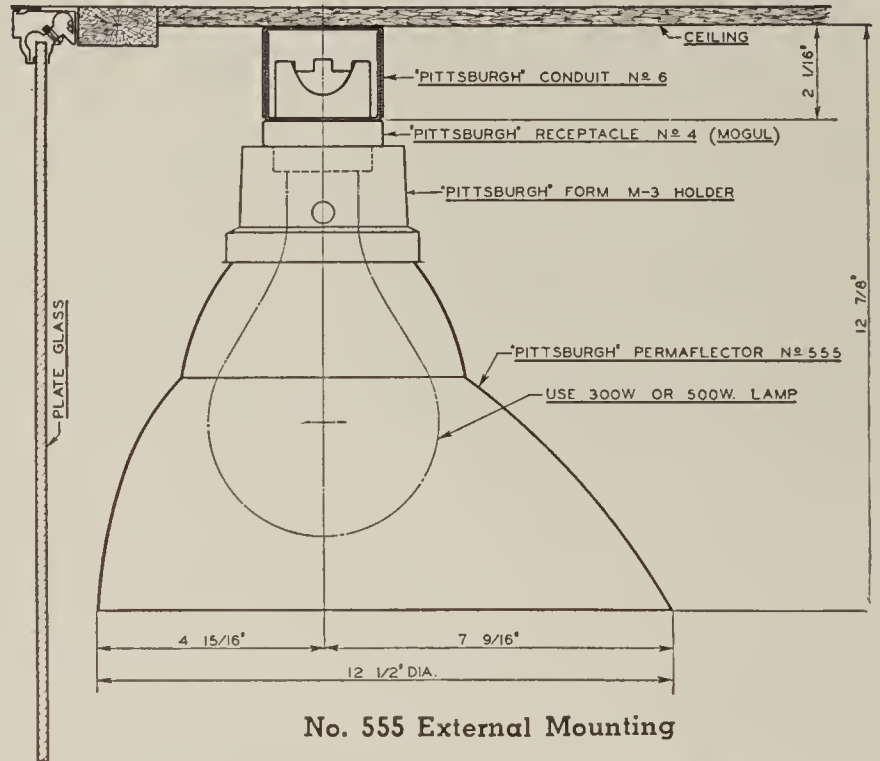
For Louvered Lighting: Use

Parallel Louver No. EM-555 for external mounting.

Eccentric Louver No. EM-555-CA for external mounting.



No. 555-2 Recessed in Plaster Ceiling and Louvered



No. 555 External Mounting

PERMAFLECTOR NO. 555-B

Consists of:

Permaflector No. 555-GO.

Porcelain Mogul Socket No. 4.

Holder No. M-3.

Box No. KO-11 for attaching to 1/2 inch conduit stem.

Standard Quantity—1

Weight, Approx. 7 lbs.

Retail Price, Each.....\$9.25

CodeFITIFIBI

Additional Equipment—for use with No. 555-B.

For Colored Lighting—Same as for No. 555.

For Louvered Lighting—Same as for No. 555.

COMBINATION NO. 555-2

(For Recessed Installation)

Consists of:

Permaflector No. 555.

Flush Mounting Ring No. 555.

Standard Quantity—1

Weight, Approx. 7 1/2 lbs.

Retail Price, Each\$10.25

CodeFITIFTU

Ceiling Space Required:

Space Above Ceiling Line—12 7/8 inches.

Opening to be Cut in Ceiling, Circular—Diam., 12 3/4 inches.

Additional Equipment—for use with No. 555-2.

For Plaster Ceiling—Use Plaster Ring No. 555.

For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 81 with or without Wire Guard No. WG-2.

For Louvered Lighting: Use

Parallel Louver No. FM-555.

Eccentric Louver No. FM-555-CA.

COMBINATION NO. 555-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. 555.

Hinged Ceiling Roundel No. 2-B.

Standard Quantity—1

Weight, Approx. 13 lbs.

Retail Price, Each\$17.75

CodeFITIFO

Ceiling Space Required:

Space Above Ceiling Line—13 1/4 inches.

Opening to be Cut in Ceiling, Circular—Diam., 13 3/8 inches.

Additional Equipment—for use with No. 555-4.

For Plaster Ceiling—Use Plaster Ring No. 2-B.

For Protection of Roundel—Use Wire Guard No. WG-2.

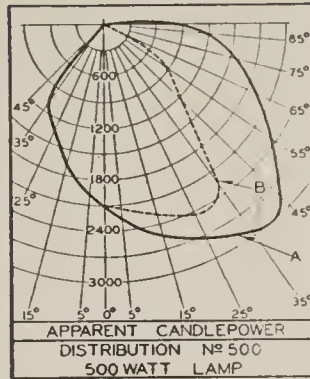


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. 500 SERIES



No. 500



Application—Primarily for deep windows, 9 to 16 feet high, in which trim is carried full height of window. Also excellent for other display lighting and coves in large interiors.

Minimum Spacings: for
Mounting on Conduit No. 6—14 inches on centers.
Mounting on Knockout Strip No. KO-1—15 inches on centers.

Dimensions:
Height Permaflector No. 500-GO—9½ inches.

Lamp Size—
500 watt PS-40;
300 watt PS-35.

PERMAFLECTOR NO. 500

Consists of:
Permaflector No. 500-GO.
Outlet Box Cover Assembly No. B-3.
Holder No. M-3.

Attaches to any standard 4" Outlet Box, 1½ inches deep.

Standard Quantity—1 **Weight**, Approx. 7½ lbs.

Retail Price, Each:
Permaflector No. 500\$9.75
Permaflector No. 500-GO (Glass Only).....\$7.90
Code: Permaflector No. 500SHOFIHUN
Permaflector No. 500-GOFIHUNGLA

Additional Equipment—for use with No. 500

May Be Mounted On:

Conduit No. 6, in which case discard outlet box cover.

For Colored Lighting: Use

Color-Lite No. 8 for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-555 for external mounting.

Concentric Louver No. EM-555-C for external mounting.

PERMAFLECTOR NO. 500-B

Consists of:
Permaflector No. 500-GO.
Porcelain Mogul Socket No. 4.
Holder No. M-3.
Box No. KO-11 for attaching to ½" conduit stem.

Standard Quantity—1 **Weight**, Approx. 7½ lbs.

Retail Price, Each.....\$9.75

CodeFIVEHUNBI

Additional Equipment—for use with No. 500-B.

For Colored Lighting—Same as for No. 500.

For Louvered Lighting—Same as for No. 500.

COMBINATION NO. 500-2

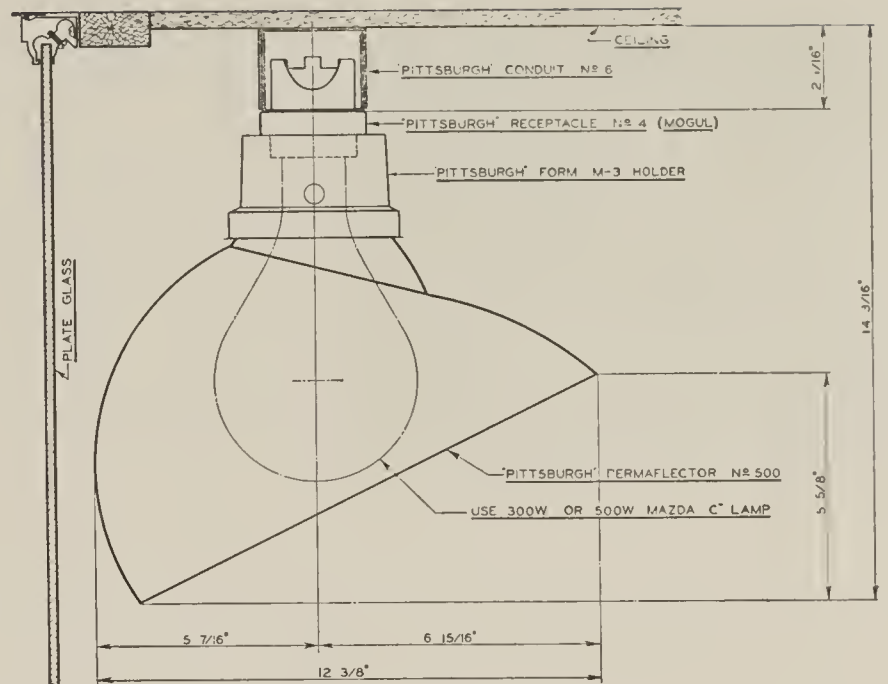
Consists of:
Permaflector No. 500.
Flush Mounting Ring No. 500.

Standard Quantity—1 **Weight**, Approx. 10½ lbs.

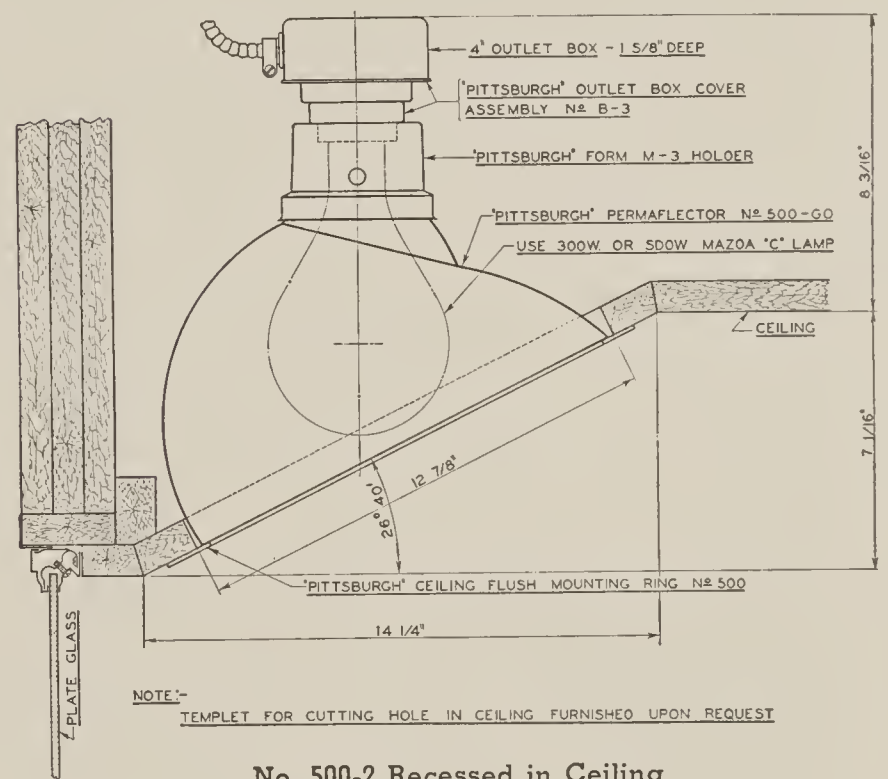
Retail Price, Each\$11.45

CodeFIHUTU

Opening to be Cut in Ceiling—Template free on request.



No. 500 External Mounting



No. 500-2 Recessed in Ceiling

THREE-LIGHT EQUIPMENT

For Nos. 500 and 555 Series

The substitution of Three-Light Mogul Socket No. 5 for Standard Mogul Socket No. 4, converts the following items for use with:

200-300-500 Watt PS-40, Three-Light Lamp or
150-200-300 Watt, PS-35, Three-Light Lamp

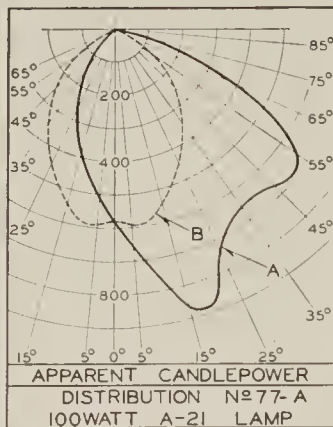
Catalog No.	Std. Quan.	Retail Price Each	Code
Permaflector No. 500, 3-Light	1	\$10.00	FIHUNTRE
Permaflector No. 500-B, 3-Light	1	10.00	FIHUNTREB
Combination No. 500-2, 3-Light	1	11.70	FIHUTURE
Permaflector No. 555, 3-Light	1	9.50	FITIFITRE
Permaflector No. 555-B, 3-Light	1	9.50	FITIFITREB
Combination No. 555-2, 3-Light	1	10.50	FITIFTUR
Combination No. 555-4, 3-Light	1	18.00	FITIFOR



PERMAFLECTOR NO. 77 SERIES



No. 77-A



Application—Permaflector No. 77-A, when installed flush in the ceiling, illuminates the full height of the background without the sharp cut-off of the more concentrating reflectors Nos. 55, 54, 57. Before No. 77-A was introduced these desirable results could be secured only by the use of the angle reflectors No. 73, 105, 110, 500, which however required angling-off the ceiling at the glass line to conform to the angle of the front of the reflector, a form of construction frequently out of question. Another application of No. 77-A is for indirect lighting from wall urns, coves, columns and indirect floor lamps.

Minimum Spacings: for
Mounting on Conduit No. 1—7½ inches on centers.
Mounting on Knockout Strip No. KO-1—9 inches on centers.

Dimensions:
Height Permaflector No. 77-A—5 inches.
Bottom Opening Circular—Diameter, 7 inches.

Lamp Size—100 watt A-21.

PERMAFLECTOR NO. 77-A

Standard Quantity—12
Retail Price, Each.....\$2.55
Code.....SEVTISEN

Weight, Approx. 16 lbs.

Additional Equipment—for use with No. 77-A.

Holder:

For Grooved Porcelain Socket—Use
2¼" Form "SR" Holder.
For Porcelain Sockets No. 1 or No. KO-8—Use
2¼" Form "S" Holder.

May Be Installed With:

Outlet Box Cover Assembly No. B-1-3¼-S or B-1-4-S.

May Be Mounted On:

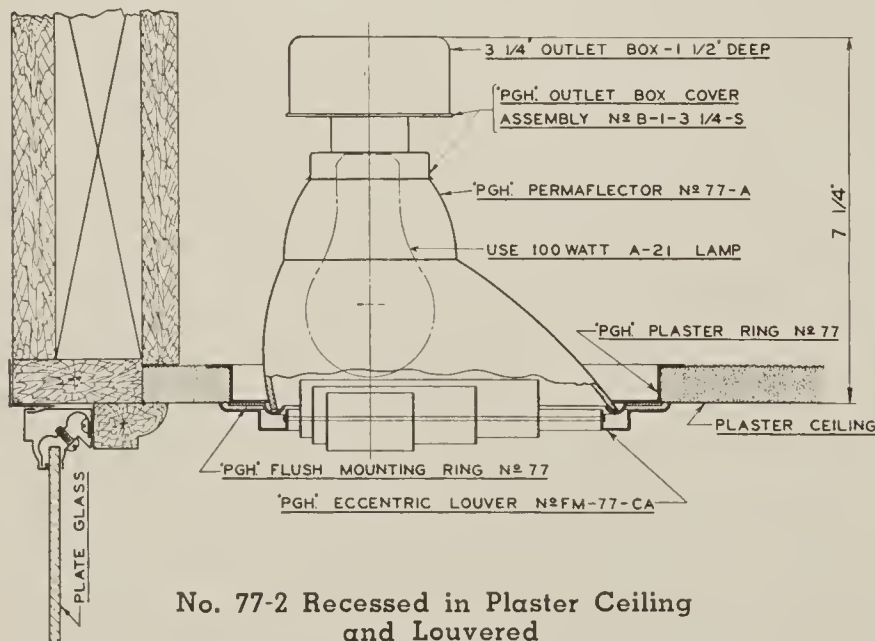
Conduit No. 1 or Knockout Strip No. KO-1 with 2¼" Form "S" Holder.

For Colored Lighting: Use

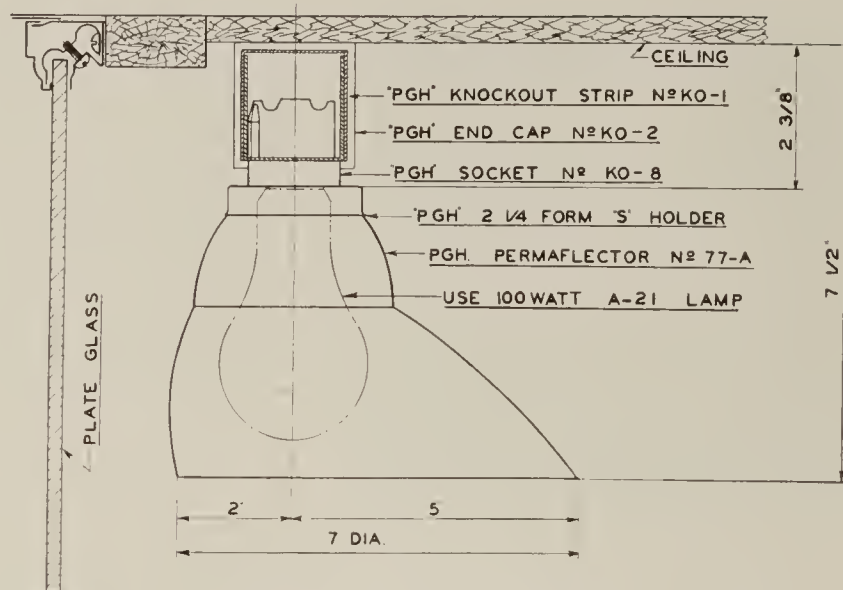
Color-Lite No. 16 or No. 16-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-77 for external mounting.
Eccentric Louver No. EM-77-CA for external mounting.



No. 77-2 Recessed in Plaster Ceiling and Louvered



No. 77-A External Mounting

COMBINATION NO. 77-2

(For Recessed Installation)

Consists of:

Permaflector No. 77-A.
Outlet Box Cover Assembly No. B-1-3¼-S.
Flush Mounting Ring No. 77.

Standard Quantity—12

Weight, Approx. 25 lbs.

Retail Price, Each.....\$3.53

Code.....SEVSETU

Ceiling Space Required:

Space Above Ceiling Line—7¼ inches.
Opening to be Cut in Ceiling, Circular—Diam., 7¼ inches.

Additional Equipment—for use with No. 77-2.

For Plaster Ceiling—Use Plaster Ring No. 77.

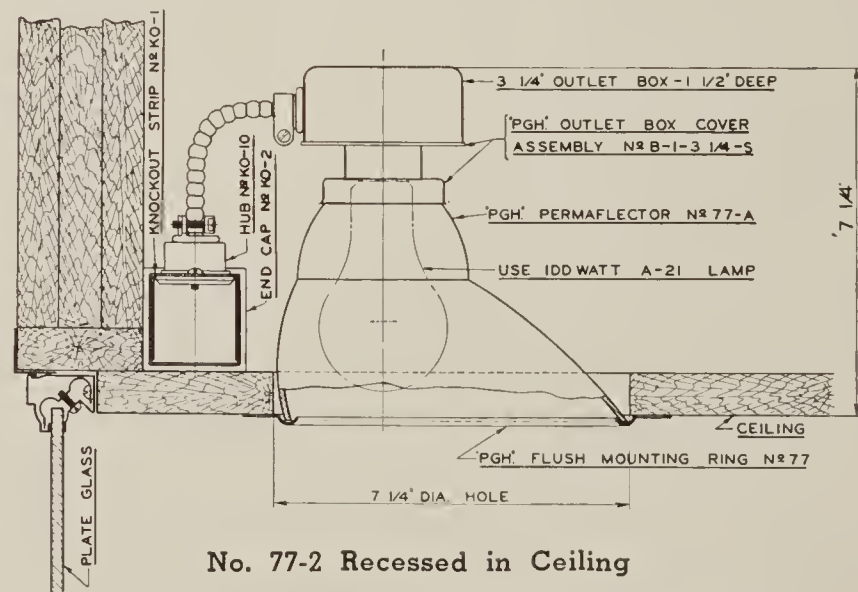
For Colored Lighting—Use Color-Lite No. 41 or No. 41-DB.

For Ceiling Roundel (Not Hinged)—Use
Ceiling Roundel No. 41 with or without Wire Guard No. WG-4.

For Louvered Lighting—Use

Parallel Louver No. FM-77.

Eccentric Louver No. FM-77-CA.



No. 77-2 Recessed in Ceiling

COMBINATION NO. 77-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. 77-A.
Outlet Box Cover Assembly No. B-1-3¼-S.
Hinged Ceiling Roundel No. 4-B.

Standard Quantity—12

Weight, Approx. 40 lbs.

Retail Price, Each.....\$6.15

Code.....SEVSEFO

Ceiling Space Required:

Space Above Ceiling Line—7⅝ inches.
Opening to be Cut in Ceiling, Circular—Diam., 7⅝ inches.

Additional Equipment—for use with No. 77-4.

For Plaster Ceiling—Use Plaster Ring No. 4-B.

For Protection of Roundel—Use Wire Guard No. WG-4.

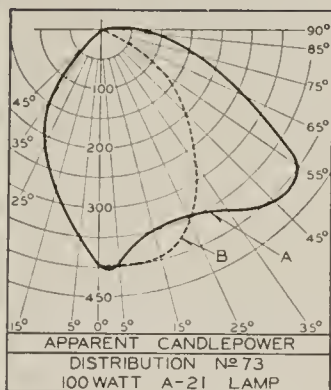


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. 73 SERIES



No. 73



Application—For low, deep windows, 4 to 7 feet high, in which trim is carried the full height. Also excellent for many other display lighting uses such as rug racks, interior wall displays, art galleries, museums, and indirect cove lighting.

Minimum Spacings: for

Mounting on Conduit No. 1—7½ inches on centers.

Mounting on Knockout Strip No. KO-1—9 inches on centers.

Dimensions:

Height Permaflector No. 73—5½ inches.

Bottom Opening Circular—Diameter, 6¾ inches.

Lamp Size—

60 watt A-19; 75 watt A-21; 100 watt A-21.

PERMAFLECTOR NO. 73

Standard Quantity—10

Weight, Approx. 10 lbs.

Retail Price, Each\$2.55

CodeSHOSETREE

Additional Equipment—for use with No. 73.

Holder:

For Grooved Porcelain Socket—Use

2¼" Form "SR" Holder for 60 Watt A-19 Lamp.

2¼" Form "SLR" Holder for 100 Watt A-21 Lamp.

For Porcelain Socket No. 1 or KO-8—Use

2¼" Form "S" Holder for 60 Watt A-19 Lamp.

2¼" Form "SL" Holder for 75 or 100 Watt A-21 Lamp.

May Be Installed With: Outlet Box Cover Assembly No. B-1-3¼ or B-1-4 with 2¼" Form "S" or "SL" Holder.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1 with 2¼" Form "S" or "SL" Holder.

For Colored Lighting: Use

Color-Lite No. 4-A or 4-ADB for external mounting.

COMBINATION NO. 73-4

(Hinged Ceiling Roundel Installation)
(Use 100 Watt A-21 Lamp)

Consists of:

Permaflector No. 73.

Outlet Box Cover Assembly No. B-1-3¼-SL.

Hinged Ceiling Roundel No. 4-B.

Standard Quantity—10

Weight, Approx. 30 lbs.

Retail Price, Each\$6.25

CodeSETREFO

Opening to be Cut in Ceiling, Circular—Diam., 7⅞ inches.

Additional Equipment—for use with No. 73-4.

For Plaster Ceiling—Use Plaster Ring No. 4-B.

For Protection of Roundel—Use Wire Guard No. WG-4.

COMBINATION NO. 73-5

(Hinged Concentric Louver Installation)
(Use 100 Watt A-21 Lamp)

Consists of:

Permaflector No. 73.

Outlet Box Cover Assembly No. B-1-3¼-SL.

Hinged Concentric Louver No. 4-B.

Standard Quantity—10

Weight, Approx. 25 lbs.

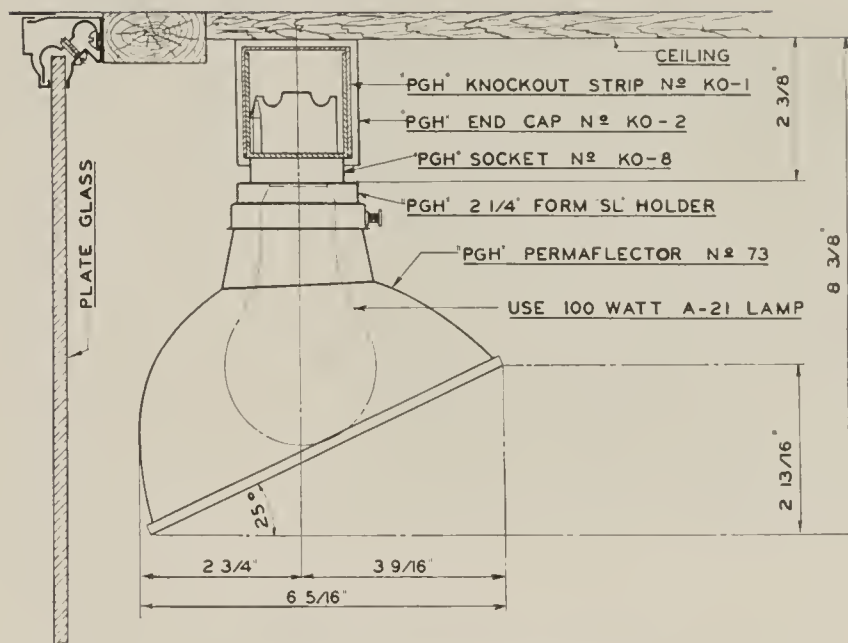
Retail Price, Each\$6.25

CodeSETREFI

Opening to be Cut in Ceiling, Circular—Diam., 7⅞ inches.

Additional Equipment—for use with No. 73-5.

For Plaster Ceiling—Use Plaster Ring No. 4-B.



No. 73 External Mounting

COMBINATION NO. 73-2

(For Recessed Installation)
(Use 100 Watt A-21 Lamp)

Consists of:

Permaflector No. 73.

Outlet Box Cover Assembly No. B-1-3¼-SL.

Flush Mounting Ring No. 73.

Standard Quantity—10

Weight, Approx. 19 lbs.

Retail Price, Each\$3.63

CodeSETRETU

Opening to be Cut in Ceiling, Circular—Diam., 7 inches.

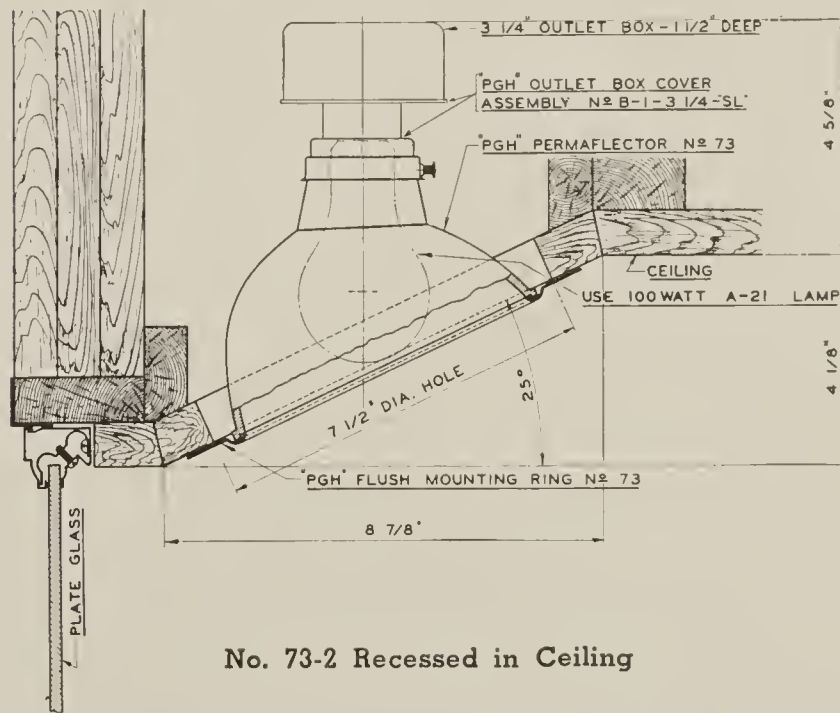
Additional Equipment—for use with No. 73-2.

For Plaster Ceiling—Use Plaster Ring No. 77.

For Colored Lighting—Use Color-Lite No. 41 or No. 41-DB.

For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 41 with or without Wire Guard No. WG-4.



No. 73-2 Recessed in Ceiling

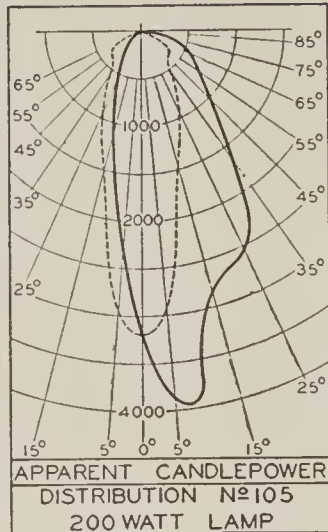
Permaflectors for 3-Light Lamps

The Permaflector line is the largest available for use with 3-Light lamps. Any of the Permaflectors for 300 or 500 watt general service lamps, which regularly come equipped with Mogul Socket No. 4, are also available with 3-Light Mogul Socket No. 5.

PERMAFLECTOR NO. 105 SERIES



No. 105



Application—For deep windows, 7 to 10 feet high, in which trim is carried the full height. The exceptional concentration of light close to glass line makes this the ideal reflector for these windows. For other applications similar to No. 110.

Minimum Spacings: for

Mounting on Conduit No. 1—10½ inches on centers.

Mounting on Knockout Strip No. KO-1—12 inches on centers.

Dimensions:

Height with Adapter No. 1234 Extended—9¾ inches.

Height with Adapter No. 1234 Compressed—8½ inches.

Height Permaflector No. 105-GO—6½ inches.

Bottom Opening Circular—Diameter, 9½ inches.

Lamp Size—

150 watt PS-25, Adapter in compressed position.

200 watt PS-30, Adapter in extended position.

PERMAFLECTOR NO. 105

Consists of:

Permaflector No. 105-GO and Adapter No. 1234.

Standard Quantity—10

Weight, Approx. 20 lbs.

Retail Price, Each\$4.00

CodeSHOHUNFI

Additional Equipment—for use with No. 105.

May Be Installed With:

Outlet Box Cover Assembly No. B-1-3¼ or B-1-4.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1.

For Colored Lighting: Use

Color-Lite No. 21 or No. 21-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-54 for external mounting.

Concentric Louver No. EM-54-C for external mounting.

PERMAFLECTOR NO. 105-R

Consists of:

Permaflector No. 105-GO and Adapter No. 1234-R for use where grooved porcelain sockets are installed.

Standard Quantity—10

Weight, Approx. 20 lbs.

Retail Price, Each\$4.00

CodeSHOHUNFI

Additional Equipment—for use with No. 105-R.

For Colored Lighting—Same as for No. 105.

For Louvered Lighting—Same as for No. 105.

COMBINATION NO. 105-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. 105.

Outlet Box Cover Assembly No. B-1-3¼.

Hinged Ceiling Roundel No. 6-B.

Standard Quantity—10

Weight, Approx. 52 lbs.

Retail Price, Each\$9.05

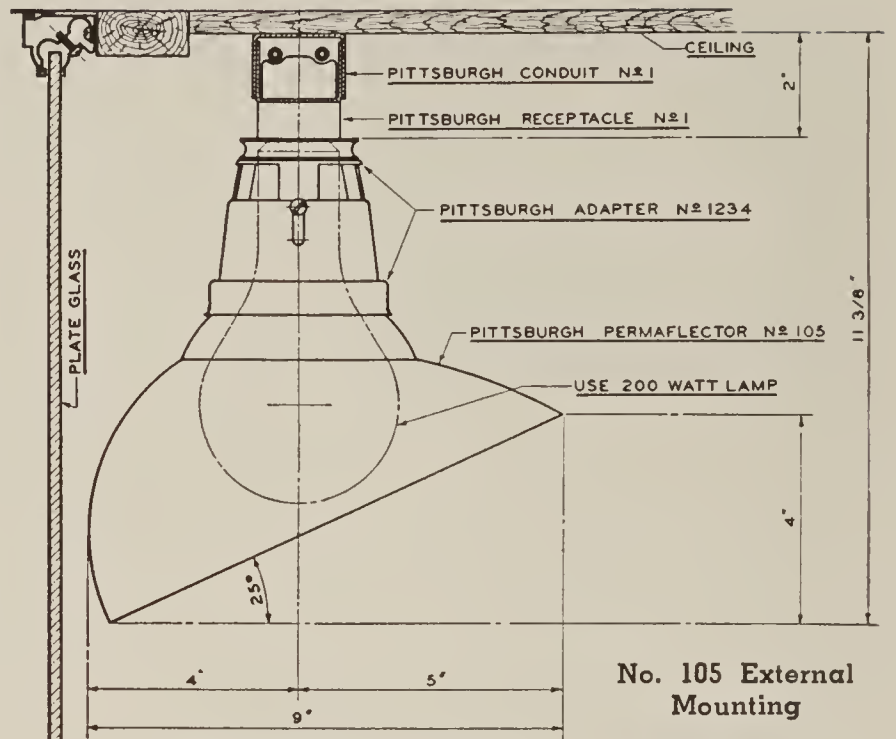
CodeONOFIFO

Opening to be Cut in Ceiling, Circular—Diam., 10¾ inches.

Additional Equipment—for use with No. 105-4.

For Plaster Ceiling—Use Plaster Ring No. 6-B.

For Protection of Roundel—Use Wire Guard No. WG-6.



No. 105 External Mounting

COMBINATION NO. 105-2

(For Recessed Installation)

Consists of:

Permaflector No. 105.

Outlet Box Cover Assembly No. B-1-3¼.

Flush Mounting Ring No. 54.

Standard Quantity—10

Weight, Approx. 29 lbs.

Retail Price, Each\$4.95

CodeONOFITU

Opening to be Cut in Ceiling, Circular—Diam., 9¾ inches.

Additional Equipment—for use with No. 105-2.

For Plaster Ceiling—Use Plaster Ring No. 54.

For Colored Lighting—Use Color-Lite No. 21 or No. 21-DB.

For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 21 with or without Wire Guard No. WG-6.

For Louvered Lighting—Use

Parallel Louver No. FM-54.

Concentric Louver No. FM-54-C.

COMBINATION NO. 105-5

(Hinged Concentric Louver Installation)

Consists of:

Permaflector No. 105.

Outlet Box Cover Assembly No. B-1-3¼.

Hinged Concentric Louver No. 6-B.

Standard Quantity—10

Weight, Approx. 44 lbs.

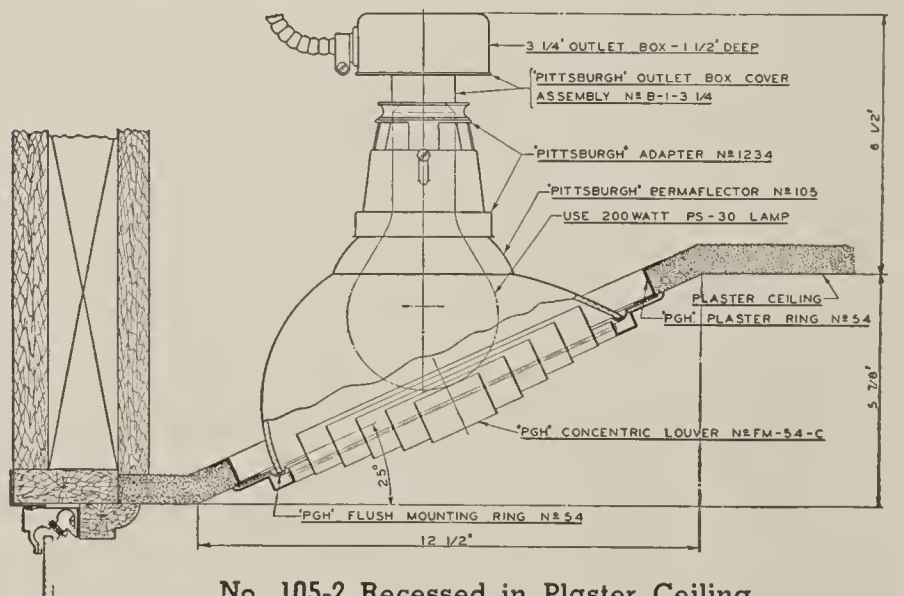
Retail Price, Each\$8.70

CodeONOFIFI

Opening to be Cut in Ceiling, Circular—Diam., 10¾ inches.

Additional Equipment—for use with No. 105-5.

For Plaster Ceiling—Use Plaster Ring No. 6-B.

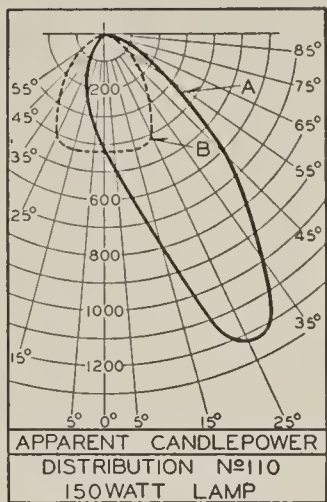


No. 105-2 Recessed in Plaster Ceiling and Louvered.

PERMAFLECTOR NO. 110 SERIES



No. 110



Application—For low, deep windows, 4 to 9 feet high, in which trim is carried the full height. In corner windows equip with concentric louvers. Also excellent for many other display lighting uses such as rug racks, interior wall displays, art galleries, museums, and indirect cove lighting.

Minimum Spacings: for

Mounting on Conduit No. 1—9 inches on centers.

Mounting on Knockout Strip No. KO-1—9 inches on centers.

Dimensions:

Height with Adapter No. 1256 Extended—8¼ inches.

Height with Adapter No. 1256 Compressed—7⅞ inches.

Height Permaflector No. 110-GO—6⅞ inches.

Bottom Opening Circular—Diameter, 8½ inches.

Lamp Size—

100 watt A-21, Adapter in compressed position, with ⅝" socket extension.

150 watt PS-25, Adapter in extended position.

PERMAFLECTOR NO. 110

Consists of:

Permaflector No. 110-GO and Adapter No. 1256.

Standard Quantity—10

Weight, Approx. 17 lbs.

Retail Price, Each\$3.50

CodeSHOHUNTEN

Additional Equipment—for use with No. 110.

May Be Installed With:

Outlet Box Cover Assembly No. B-1-3¼ or B-1-4.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1.

For Colored Lighting: Use

Color-Lite No. 6 or No. 6-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-55 for external mounting.

Concentric Louver No. EM-55-C for external mounting.

PERMAFLECTOR NO. 110-R

Consists of:

Permaflector No. 110-GO and Adapter No. 1256-R for use where grooved porcelain sockets are installed:

Standard Quantity—10

Weight, Approx. 17 lbs.

Retail Price, Each\$3.50

CodeSHOHUNTEN

Additional Equipment—for use with No. 110-R.

For Colored Lighting—Same as for No. 110.

For Louvered Lighting—Same as for No. 110.

COMBINATION NO. 110-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. 110.

Outlet Box Cover Assembly No. B-1-3¼.

Hinged Ceiling Roundel No. 1-B.

Standard Quantity—10

Weight, Approx. 44 lbs.

Retail Price, Each\$7.70

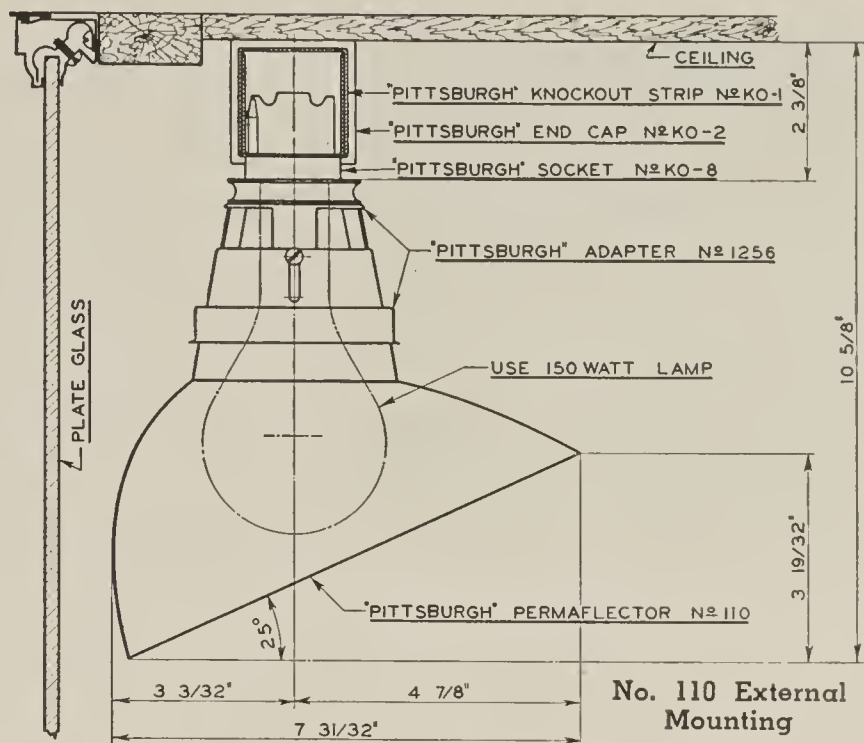
CodeONTENFO

Opening to be Cut in Ceiling, Circular—Diam., 9¾ inches.

Additional Equipment—for use with No. 110-4.

For Plaster Ceiling—Use Plaster Ring No. 1-B.

For Protection of Roundel—Use Wire Guard No. WG-1.



COMBINATION NO. 110-2

(For Recessed Installation)

Consists of:

Permaflector No. 110.

Outlet Box Cover Assembly No. B-1-3¼.

Flush Mounting Ring No. 55.

Standard Quantity—10

Weight, Approx. 24 lbs.

Retail Price, Each\$4.37

CodeONTENTU

Opening to be Cut in Ceiling, Circular—Diam., 8¾ inches.

Additional Equipment—for use with No. 110-2.

For Plaster Ceiling—Use Plaster Ring No. 55-A.

For Colored Lighting—Use Color-Lite No. 61 or No. 61-DB.

For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 62 with or without Wire Guard No. WG-1.

For Louvered Lighting—Use

Parallel Louver No. FM-55.

Concentric Louver No. FM-55-C.

COMBINATION NO. 110-5

(Hinged Concentric Louver Installation)

Consists of:

Permaflector No. 110.

Outlet Box Cover Assembly No. B-1-3¼.

Hinged Concentric Louver No. 1-B.

Standard Quantity—10

Weight, Approx. 36 lbs.

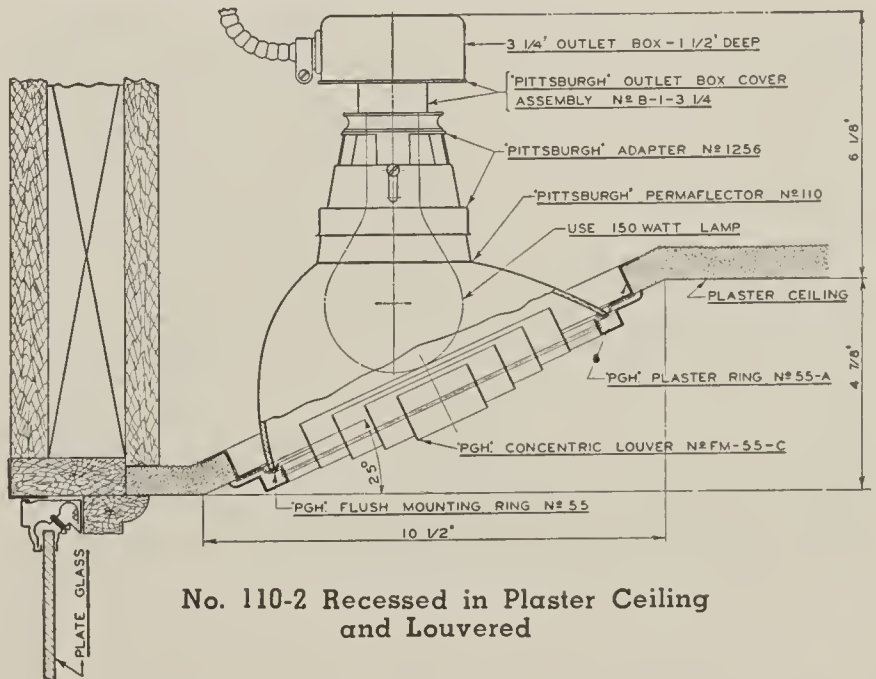
Retail Price, Each\$7.70

CodeONTENFI

Ceiling Space Required—Same as No. 110-4.

Additional Equipment—for use with No. 110-5.

For Plaster Ceiling—Use Plaster Ring No. 1-B.



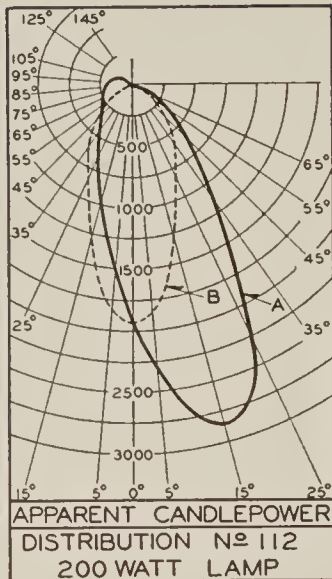
No. 110-2 Recessed in Plaster Ceiling and Louvered



PERMAFLECTOR NO. 112 AND 112-R



No. 112



Application—For the dual service of lighting sign at top of window as well as the display. Bottom opening horizontal. If it be desired to recess No. 112 use same auxiliary equipment as for Permaflector No. 54.

Minimum Spacings: for

Mounting on Conduit No. 1—10½ inches on centers.
Mounting on Knockout Strip No. KO-1—12 inches on centers.

Dimensions:

Height with Adapter No. 1234 Extended—8 inches.
Height with Adapter No. 1234 Compressed—7½ inches.
Height Permaflector No. 112-GO—5¼ inches.
Bottom Opening Circular—Diameter, 9½ inches.

Lamp Size—

150 watt PS-25, Adapter in compressed position.
200 watt PS-30, Adapter in extended position.

PERMAFLECTOR NO. 112

Consists of:

Permaflector No. 112-GO and Adapter No. 1234.

Standard Quantity—8 **Weight**, Approx. 18 lbs.

Retail Price, Each\$4.50

CodeHUNTWELFOR

Additional Equipment—for use with No. 112.

May Be Installed With:

Outlet Box Cover Assembly No. B-1-3¼ or No. B-1-4.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1.

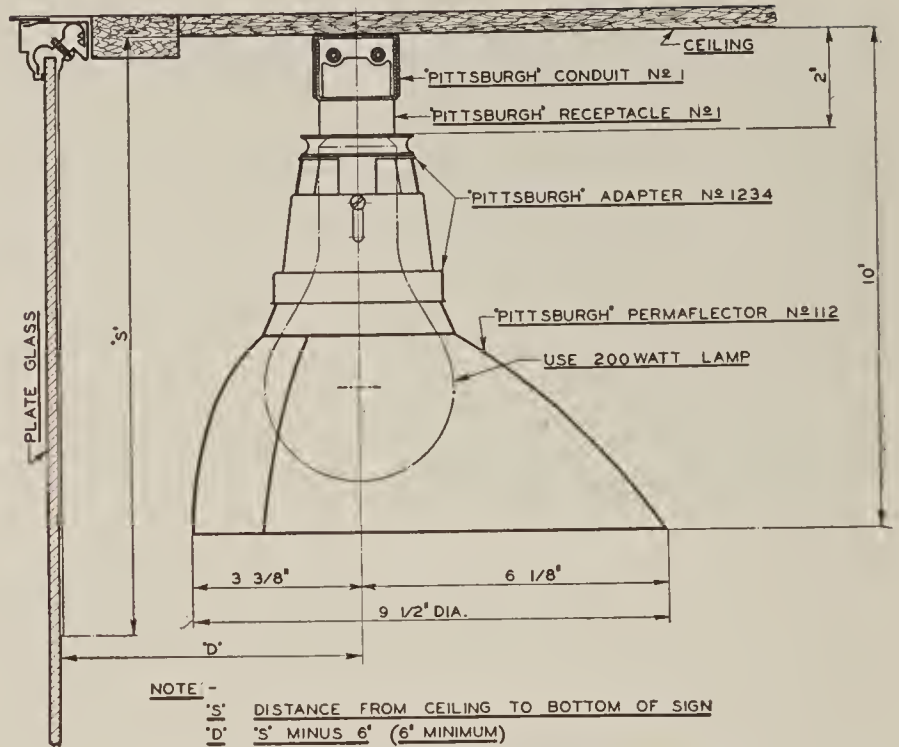
For Colored Lighting:—Use

Color-Lite No. 2 or No. 2-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-54 for external mounting.

Eccentric Louver No. EM-99-CA for external mounting.



Permaflector No. 112 General Arrangement

PERMAFLECTOR NO. 112-R

Consists of:

Permaflector No. 112-GO and Adapter No. 1234-R for use where grooved porcelain sockets are installed.

Standard Quantity—8

Weight, Approx. 18 lbs.

Retail Price, Each\$4.50

CodeHUNTWELFIR

Additional Equipment—for use with No. 112-R.

For Colored Lighting—Same as for No. 112.

For Louvered Lighting—Same as for No. 112.

SPACING RECOMMENDED FOR DUAL SERVICE

With maximum depth of sign, in.	Mounting distance of receptacles from plate glass, inches	Maximum spacing between reflectors, in.
12	6	12
13	7	14
14	8	16
15	9	18
16	10	20
17	11	22
18	12	24



Eastern Furniture Co.



Ohringer Home Furniture Co.

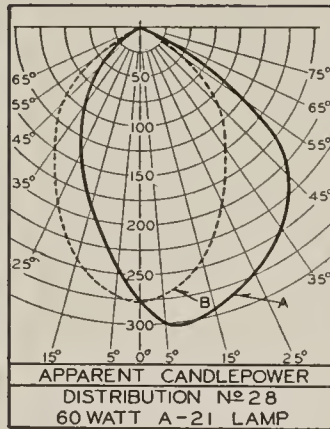
Greensburg, Pa.

Dramatic Show Window Lighting with Permaflector Recessed Equipment

PERMAFLECTOR NO. 28 SERIES



No. 28



Application—For tall and shallow display cases. Asymmetric in distribution; maximum candle-power occurs at 10°.

Minimum Spacings: for

Mounting on Conduit No. 1—6 inches on centers.

Mounting on Knockout Strip No. KO-1—6 inches on centers.

Dimensions:

Height Permaflector No. 28—3 $\frac{7}{8}$ inches.

Bottom Opening Circular—Diam., 5 $\frac{1}{2}$ inches.

Lamp Size—25 Watt A-19; 60 Watt A-19.

PERMAFLECTOR NO. 28

Standard Quantity—20

Weight, Approx. 16 $\frac{1}{2}$ lbs.

Retail Price, Each.....\$1.75

CodeTUATE

Additional Equipment—for use with No. 28.

Holder:

For Grooved Porcelain Socket—Use

2 $\frac{1}{4}$ " Form "SR" Holder for 25 Watt A-19 Lamp.

For Porcelain Sockets No. 1 or No. KO-8—Use

2 $\frac{1}{4}$ " Form "S" Holder for 25 Watt A-19 Lamp.

2 $\frac{1}{4}$ " Form "SL" Holder for 60 Watt A-19 Lamp.

May Be Installed With: Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$ or B-1-4 with 2 $\frac{1}{4}$ " Form "S" or "SL" Holder.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1 with 2 $\frac{1}{4}$ " Form "S" or "SL" Holder.

COMBINATION NO. 28-2

(For Recessed Installation)
(Use 60 Watt A-19 Lamp)

Consists of:

Permaflector No. 28.

Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$ -SL.

Flush Mounting Ring No. 28.

Standard Quantity—20

Weight, Approx. 30 lbs.

Retail Price, Each.....\$2.65

CodeTUATU

Ceiling Space Required:

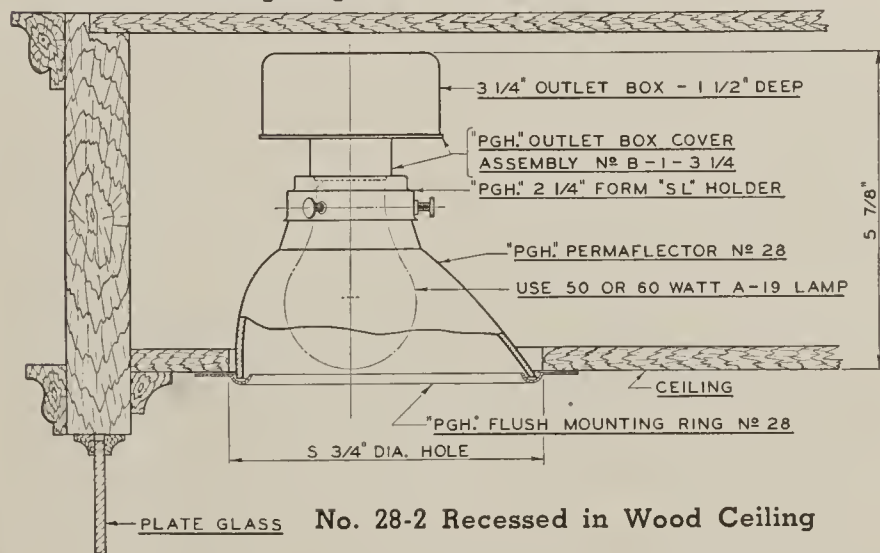
Space Above Ceiling Line—5 $\frac{7}{8}$ inches.

Opening to be Cut in Ceiling, Circular—Diam., 5 $\frac{3}{4}$ inches.

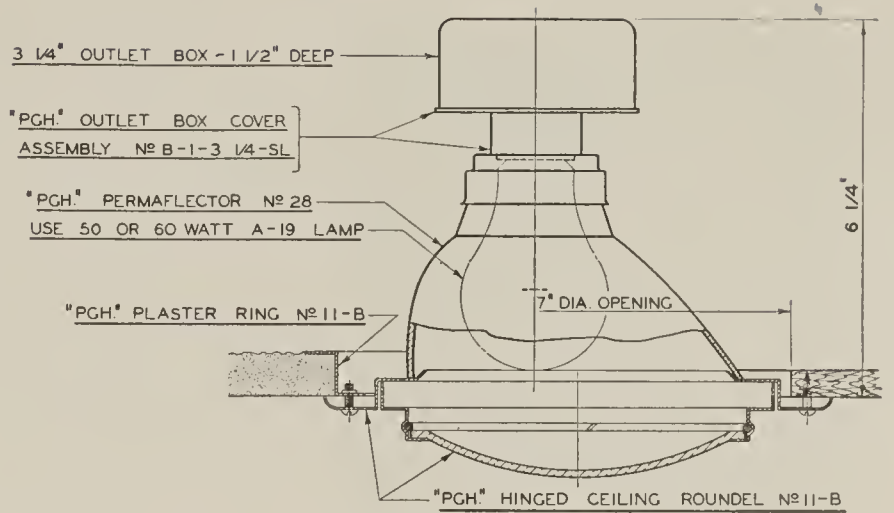
Additional Equipment—for use with No. 28-2.

For Plaster Ceiling—Use Plaster Ring No. 28.

For Louvered Lighting—Use Concentric Louver No. FM-28-C.



No. 28-2 Recessed in Wood Ceiling



HALF SECTION
THRU PLASTER CEILING

HALF SECTION
THRU WOOD CEILING

No. 28-4 Recessed in Ceiling

COMBINATION NO. 28-4

(Hinged Ceiling Roundel Installation)
(Use 60 Watt A-19 Lamp)

Consists of:

Permaflector No. 28.

Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$ -SL.

Hinged Ceiling Roundel No. 11-B.

Standard Quantity—20

Weight, Approx. 50 lbs.

Retail Price, Each.....\$5.10

CodeTUATFO

Ceiling Space Required:

Space Above Ceiling Line—6 $\frac{1}{4}$ inches.

Opening to be Cut in Ceiling, Circular—Diam., 7 inches.

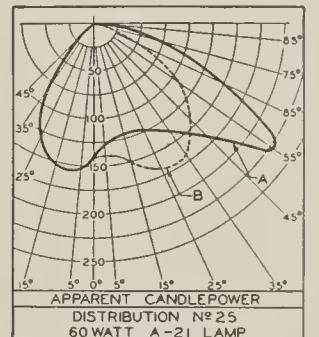
Additional Equipment—for use with No. 28-4.

For Plaster Ceiling—Use Plaster Ring No. 11-B.

PERMAFLECTOR NO. 25



No. 25



Standard Quantity—20

Weight, Approx. 12 lbs.

Retail Price, Each.....\$1.50

CodeTUFIE

Minimum Spacings: for

Mounting on Conduit No. 1—4 $\frac{1}{2}$ inches on centers.

Mounting on Knockout Strip No. KO-1—6 inches on centers.

Dimensions:

Height Permaflector No. 25—4 $\frac{1}{4}$ inches. Width—4 $\frac{1}{4}$ inches.

Front to Back—4 $\frac{7}{8}$ inches. Center to Back—2 $\frac{1}{8}$ inches.

Lamp Size—25 Watt A-19; 60 Watt A-19.

Additional Equipment—For Use with No. 25.

Holder:

For Grooved Porcelain Socket—Use

2 $\frac{1}{4}$ " Form "SR" Holder for 25 Watt A-19 Lamp.

For Porcelain Sockets No. 1 or No. KO-8—Use

2 $\frac{1}{4}$ " Form "S" Holder for 25 Watt A-19 Lamp.

2 $\frac{1}{4}$ " Form "SL" Holder for 60 Watt A-19 Lamp.

May Be Installed With: Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$ or B-1-4 with 2 $\frac{1}{4}$ " Form "S" or "SL" Holder.

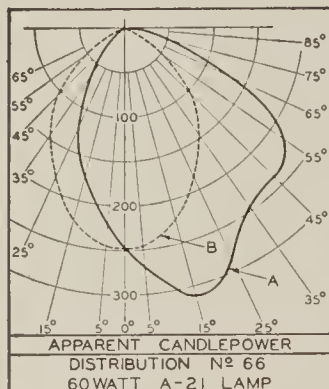
May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1 with 2 $\frac{1}{4}$ " Form "S" or "SL" Holder.

PERMAFLECTOR NO. 66 SERIES



No. 66



Application—For indirect wall urn and cove lighting. Also a case lighting reflector which may be recessed in a flat ceiling and light up the full height of background. Especially good for lighting walls of a gasoline service station from reflectors recessed in overhanging cornice.

Minimum Spacings: for

Mounting on Conduit No. 1—6 inches on centers.

Mounting on Knockout Strip No. KO-1—6 inches on centers.

Dimensions:

Height Permaflector No. 66—4 1/4 inches.

Bottom Opening Circular—Diam., 5 1/2 inches.

Lamp Size—60 Watt A-19.

PERMAFLECTOR NO. 66

Standard Quantity—16

Weight, Approx. 13 1/2 lbs.

Retail Price, Each.....\$1.85

CodeSIXTEESIX

Additional Equipment—for use with No. 66.

Holder:

For Grooved Porcelain Socket—Use
2 1/4" Form "SR" Holder.

For Porcelain Sockets No. 1 or No. KO-8—Use
2 1/4" Form "S" Holder.

May Be Installed With: Outlet Box Cover Assembly No. B-1-3 1/4-S or B-1-4-S.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1 with 2 1/4" Form "S" Holder.

COMBINATION NO. 66-2

(For Recessed Installation)

Consists of:

Permaflector No. 66.

Outlet Box Cover Assembly No. B-1-3 1/4-S.

Flush Mounting Ring No. 28.

Standard Quantity—16

Weight, Approx. 22 lbs.

Retail Price, Each.....\$2.75

CodeSIXSITU

Ceiling Space Required:

Space Above Ceiling Line—6 1/8 inches.

Opening to be Cut in Ceiling, Circular—Diam., 6 inches.

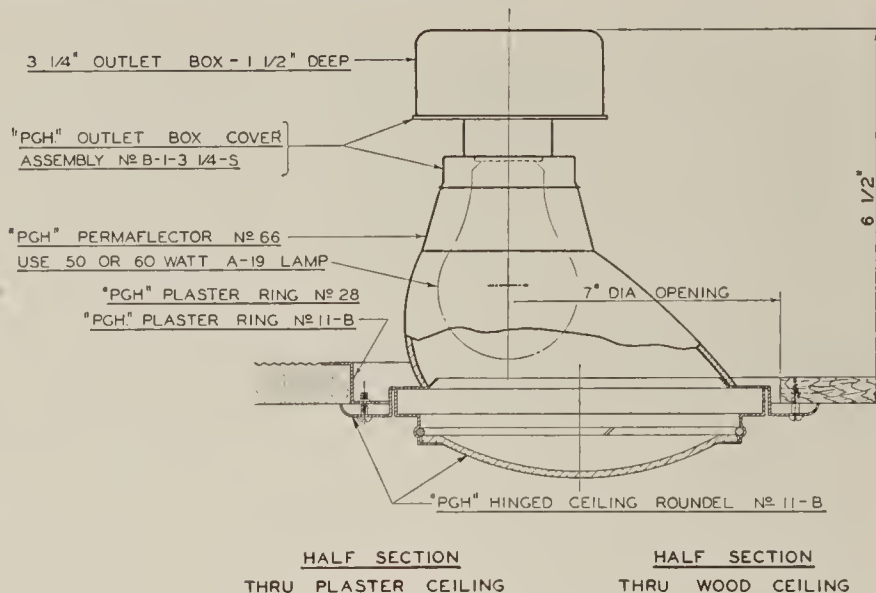
Additional Equipment—for use with No. 66.

For Plaster Ceiling—Use Plaster Ring No. 28.

For Louvered Lighting—Use Concentric Louver No. FM-28-C.

LOUVERED WINDOW LIGHTING

In corner windows and island windows, it is desirable to use louvers to conceal lamps and reflecting surfaces of Permaflectors from normal view. In corner windows parallel vane louvers are used, whereas in island windows eccentric louvers provide the desired concealment.



No. 66-4 Recessed in Ceiling

COMBINATION NO. 66-4

(Hinged Ceiling Roundel Installation)

(Use 60 Watt A-19 Lamp)

Consists of:

Permaflector No. 66.

Outlet Box Cover Assembly No. B-1-3 1/4-S.

Hinged Ceiling Roundel No. 11-B.

Standard Quantity—16

Weight, Approx. 41 lbs.

Retail Price, Each.....\$5.20

CodeSIXSIFO

Ceiling Space Required:

Space Above Ceiling Line—6 1/2 inches.

Opening to be Cut in Ceiling, Circular—Diam., 7 inches.

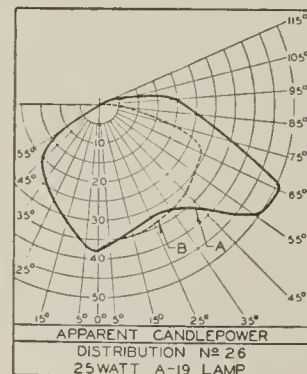
Additional Equipment—for use with No. 66-4.

For Plaster Ceiling—Use Plaster Ring No. 11-B.

PERMAFLECTOR NO. 26



No. 26



Application—A show case reflector. Also for small coves.

Standard Quantity—24

Weight, Approx. 13 lbs.

Retail Price, Each.....\$1.50

CodeTOOSIX

Minimum Spacings: for

Mounting on Conduit No. 1—4 1/2 inches on centers.

Mounting on Knockout Strip No. KO-1—6 inches on centers.

Dimensions:

Height Permaflector No. 26—3 1/2 inches.

Front to Back—4 1/8 inches.

Width—4 1/8 inches.

Center to Back—2 1/8 inches.

Lamp Size—25 Watt A-19; 60 Watt A-19.

Additional Equipment—for use with No. 26.

Holder:

For Grooved Porcelain Socket—Use

2 1/4" Form "SR" Holder for 25 Watt A-19 Lamp.

For Porcelain Sockets No. 1 or No. KO-8—Use

2 1/4" Form "S" Holder for 25 Watt A-19 Lamp.

2 1/4" Form "SL" Holder for 60 Watt A-19 Lamp.

May Be Installed With: Outlet Box Cover Assembly No. B-1-3 1/4 or B-1-4 with 2 1/4" Form "S" or "SL" Holder.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1 with 2 1/4" Form "S" or "SL" Holder.



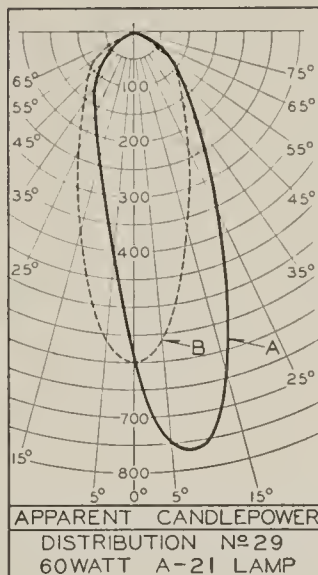
PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. 29 SERIES



No. 29

Application—Primarily for tall and shallow wall display cases. Concentrating asymmetric distribution; with maximum candlepower at 15°. Also useful for small show windows, bank cages, stock shelves, bookcases, for cove lighting, etc.



Minimum Spacings: for
Mounting on Conduit No. 1—7½ inches on centers.
Mounting on Knockout Strip No. KO-1—9 inches on centers.

Dimensions:

Height Permaflexor No. 29—3¾ inches.
Bottom Opening Circular—Diam., 6¾ inches.

Lamp Size—25 Watt A-19; 40 Watt A-19; 60 Watt A-19.

PERMAFLECTOR NO. 29

Standard Quantity—10
Retail Price, Each.....\$2.00
Code.....TUNINE

Additional Equipment—for use with No. 29.

Holder:

For Grooved Porcelain Socket—Use
2¼" Form "SR" Holder for 25 Watt A-19 Lamp.
2¼" Form "LR" Holder for 60 Watt A-19 Lamp.
For Porcelain Sockets No. 1 or No. KO-8—Use
2¼" Form "S" Holder for 25 Watt A-19 Lamp.
2¼" Form "SL" Holder for 40 Watt A-19 Lamp.
2¼" Form "L" Holder for 60 Watt A-19 Lamp.

May Be Installed With: Outlet Box Cover Assembly No. B-1-3¼ or B-1-4 with 2¼" Form "S", "SL" or "L" Holder.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1 with 2¼" Form "S", "SL" or "L" Holder.

For Colored Lighting: Use

Color-Lite No. 4-A or No. 4-ADB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-77 for external mounting.
Concentric Louver No. EM-77-C for external mounting.

COMBINATION NO. 29-2

(For Recessed Installation)
(Use 60 Watt A-19 Lamp)

Consists of:

Permaflexor No. 29.
Outlet Box Cover Assembly No. B-1-3¼-L.
Flush Mounting Ring No. 73.

Standard Quantity—10
Retail Price, Each.....\$2.98
Code.....TUNITU

Opening to Be Cut in Ceiling, Circular—Diam., 7 inches.

Additional Equipment—for use with No. 29-2.

For Plaster Ceiling—Use Plaster Ring No. 77.

For Colored Lighting—Use Color-Lite No. 41 or No. 41-DB.

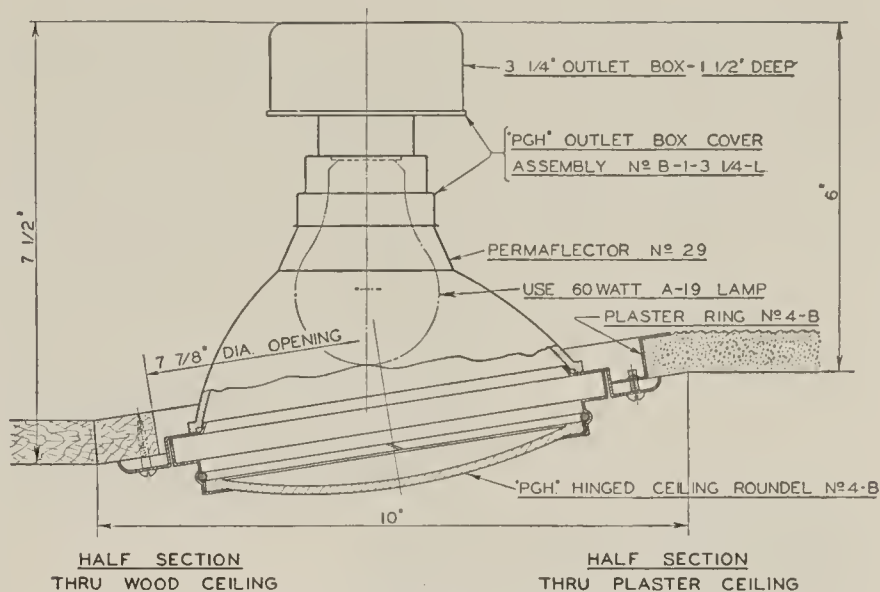
For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 41 with or without Wire Guard No. WG-4.

For Louvered Lighting—Use

Parallel Louver No. FM-77.

Concentric Louver No. FM-77-C.



No. 29-4 Recessed in Ceiling

COMBINATION NO. 29-4

(Hinged Ceiling Roundel Installation)
(Use 60 Watt A-19 Lamp)

Consists of:

Permaflexor No. 29.
Outlet Box Cover Assembly No. B-1-3¼-L.
Hinged Ceiling Roundel No. 4-B.

Standard Quantity—10
Retail Price, Each.....\$5.60
Code.....TUNIFO

Opening to be Cut in Ceiling, Circular—Diam. 7¾ inches.

Additional Equipment—for use with No. 29-4.

For Plaster Ceiling—Use Plaster Ring No. 4-B.

For Protection of Roundel—Use Wire Guard No. WG-4.

COMBINATION NO. 29-5

(Hinged Concentric Louver Installation)
(Use 60 Watt A-19 Lamp)

Consists of:

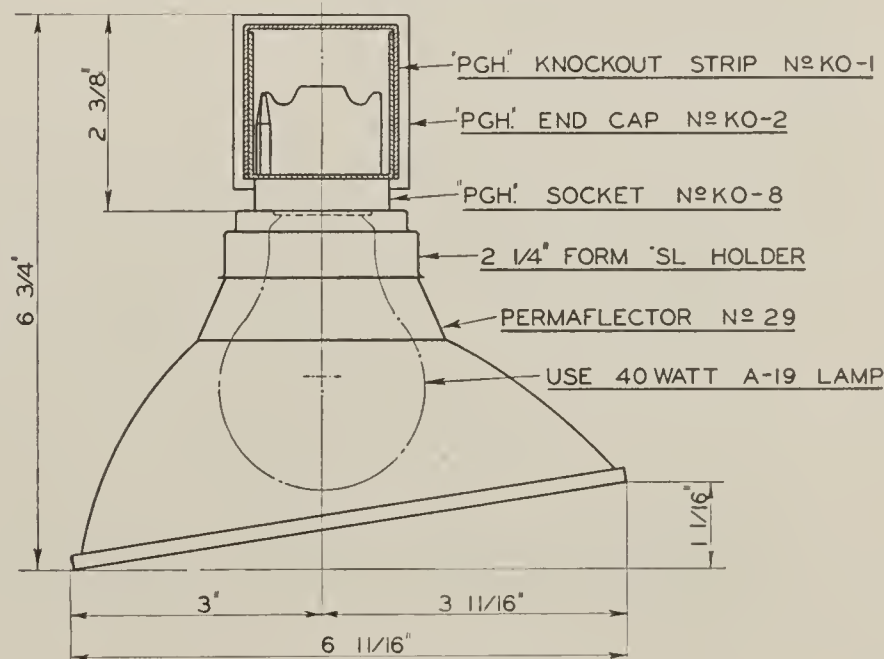
Permaflexor No. 29.
Outlet Box Cover Assembly No. B-1-3¼-L.
Hinged Concentric Louver No. 4-B.

Standard Quantity—10
Retail Price, Each.....\$5.60
Code.....TUNIFI

Opening to be Cut in Ceiling, Circular—Diam., 7¾ inches.

Additional Equipment—for use with No. 29-5.

For Plaster Ceiling—Use Plaster Ring No. 4-B.



No. 29 External Mounting



PERMAFLECTOR INTERIOR SPOTS

Permalector Interior Spots, used for window lighting, have adjustable brackets with base for attaching to the ceiling, transom bar, etc.; spot type of Permalector with exceedingly concentrating distribution socket and husk. Furnished complete as illustrated, with cord and attachment plug.

They provide an effective method of high-lighting with clear or colored light, any portion of the window display to which the display man desires to focus the attention of the customer. Interior Spots are auxiliary window lighting equipment and are **not intended as the sole source** of illumination in a show window.

Other Uses—Reducing daylight reflections in a show window; for special lighting on stages; in automobile show rooms, to

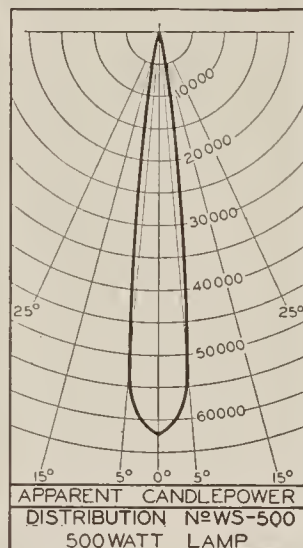
silhouette a car against a light background; dance halls for so-called "moonlight" dances; lighting of walls of art galleries and churches; skylights and church art glass windows; and any other purpose where exceedingly concentrated illumination is desired over a limited area.

Spacing—The number installed in a show window depends largely upon the psychological effect at which the display man is aiming.

Color Lighting—Color-Lites are available for use with each size Permalector Spot.

Louvered Lighting: When it is desired to conceal the reflector and lamp, use concentric louvers, EM series.

INTERIOR SPOT NO. WS-500



Dimensions:

Overall height including bracket—18 inches.
Bottom opening circular—Diameter, 13½ inches.

Lamp Size—

500 watt PS-40 or 300 watt PS-35.

Consists of:

Permalector No. C-500-GO.
Bracket—complete as shown, with 30 inches of cord and plug.

Standard Quantity—1

Weight, Approx. 10 lbs.

Retail Price, Each:

Interior Spot No. WS-500.....\$12.70
Permalector No. C-500-GO (Glass only).....\$ 7.90
Bracket only\$ 6.00

Code:

Interior Spot No. WS-500.....WINSPIVE
Permalector No. C-500-GOWINSPIGLA
Bracket onlyWINSPIBRA

Additional Equipment—for use with No. WS-500.

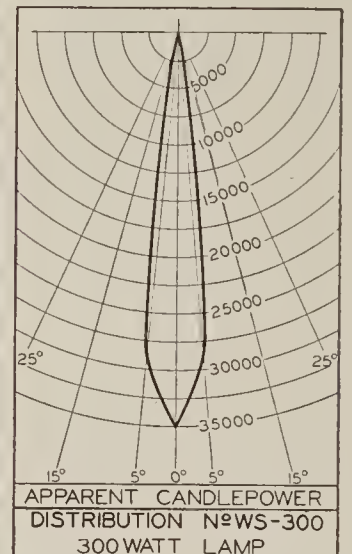
May Be Mounted on Knockout Strip—No. KO-1 with Hub No. KO-10 and Flange No. KO-12. (When ordering WS-500 for this service ask for **small base plate**.)

For Colored Lighting—use Color-Lite No. 8.

For Louvered Lighting—use Concentric Louver No. EM-555-C.

For Spill Light Elimination—use Spill Shield No. SS-500.

INTERIOR SPOT NO. WS-300



Dimensions:

Overall height including bracket—13¾ inches.
Bottom opening circular—Diameter, 11½ inches.

Lamp Size: 300 watt PS-35.

Consists of:

Permalector No. C-300-GO.
Bracket—complete as shown, with 30 inches of cord and plug.

Standard Quantity—1

Weight, Approx. 7 lbs.

Retail Price, Each:

Interior Spot No. WS-300.....\$11.40
Permalector No. C-300-GO (Glass only).....\$ 6.75
Bracket only\$ 6.00

Code:

Interior Spot No. WS-300.....WINSPRE
Permalector No. C-300-GOSEETREEHUN
Bracket onlyWINSPREBRA

Additional Equipment—for use with No. WS-300.

May Be Mounted on Knockout Strip—No. KO-1 with Hub No. KO-10 and Flange No. KO-12.

For Colored Lighting—use Color-Lite No. 10 or No. 10-DB.

For Louvered Lighting—use Concentric Louver No. EME-500-C.

For Spill Light Elimination—use Spill Shield No. SS-300.



STRAWN BUILDING
New Kensington, Pa.

Architect — Enos Cooke, New Kensington, Pa.
Electrical Contractor — Keller Electric Co., New Kensington, Pa.

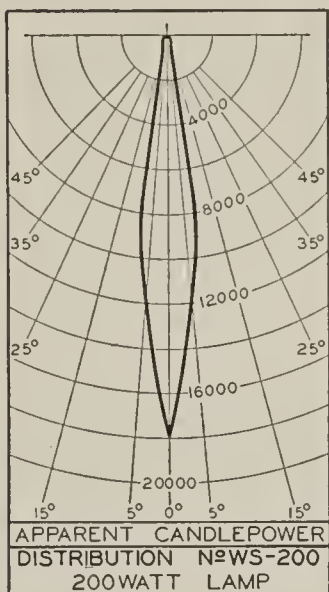


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

INTERIOR SPOT NO. WS-200



No. WS-200



Dimensions:

Overall height including bracket—13½ inches.
Bottom opening circular—Diameter, 10 inches.

Lamp Size: 200 watt PS-30.

Consists of:

Permalector No. C-201-GO.
Bracket—complete as shown, with 30 inches of cord and plug.

Standard Quantity—1

Weight, Approx. 5 lbs.

Retail Price, Each:

Interior Spot No. WS-200.....\$7.50
Permalector No. C-201-GO (Glass only).....\$4.00
Bracket only.....\$4.00

Code:

Interior Spot No. WS-200.....WINSPT
Permalector No. C-201-GO.....SETUHUNWON
Bracket only.....WINSPOBRAC

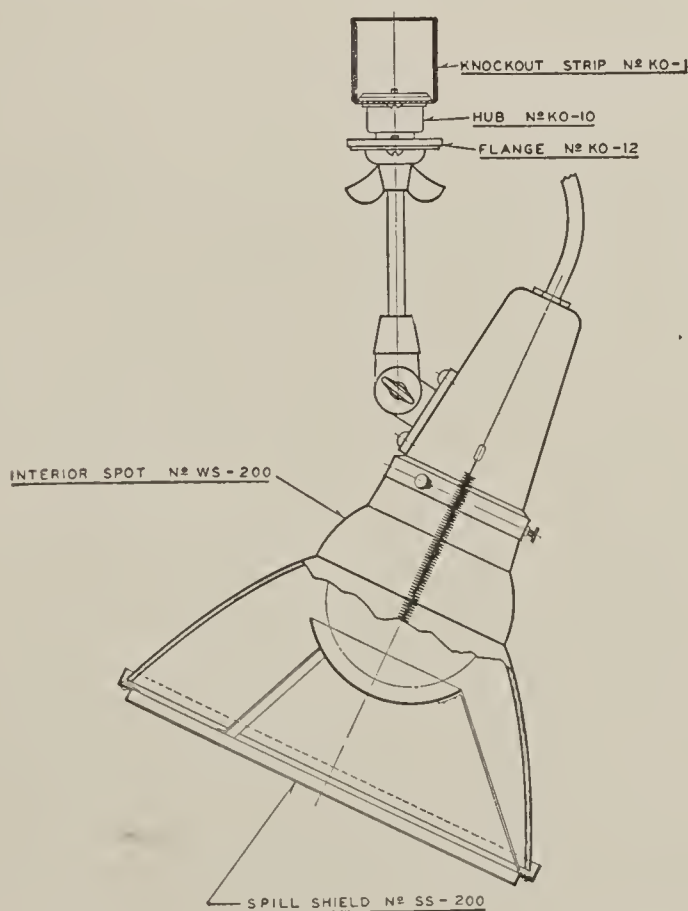
Additional Equipment—for use with No. WS-200.

May Be Mounted on Knockout Strip—No. KO-1 with Hub No. KO-10 and Flange No. KO-12.

For Colored Lighting—use Color-Lite No. 2 or No. 2-DB.

For Louvered Lighting—use Concentric Louver No. EM-54-C.

For Spill Light Elimination—use Spill Shield No. SS-200.

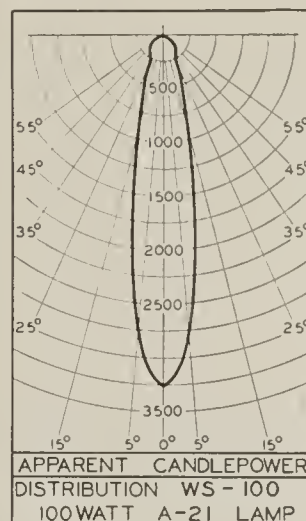


No. WS-200, suspended from Knockout Strip and equipped with Spill Shield No. SS-200.

INTERIOR SPOT NO. WS-100



No. WS-100



Dimensions:

Overall height including bracket—11 inches.
Bottom opening circular—Diameter, 8½ inches.

Lamp Size—100 watt A-21.

Consists of:

Permalector No. C-100.
Bracket—complete as shown, with 30 inches of cord and plug.

Standard Quantity—1

Weight, Approx. 4 lbs.

Retail Price, Each:

Interior Spot No. WS-100.....\$6.75
Permalector No. C-100 (Glass only).....\$3.00
Bracket only.....\$4.00

Code:

Interior Spot No. WS-100.....SPOHUN
Permalector No. C-100.....SEEHUNDER
Bracket only.....SPOHUBRAC

Additional Equipment: for use with No. WS-100.

May Be Mounted on Knockout Strip—No. KO-1 with Hub No. KO-10 and Flange No. KO-12.

For Colored Lighting—use Color-Lite No. 6 or No. 6-DB.

For Louvered Lighting—use Concentric Louver No. EM-55-C.

For Spill Light Elimination—use Spill Shield No. SS-100.

SPILL SHIELD FOR USE WITH INTERIOR SPOTS

For the purpose of eliminating the spill light of the Spot Light Reflectors, without interference with the beam of light.

Consists of spun metal ring and metal cup supported on tripod as shown. Suspended by means of springs same as Color-Lites.

Color-Lite Roundels may also be used.



No. SS-200

Spill Shield No.	Used With Interior Spot No.	If Desired Use Color-Lite No.	Std. Quantity	Wt. Approx. Lbs.	Retail Price Each	Code
SS-100	WS-100	F- 2	10	8	\$2.50	SPILONHUN
SS-200	WS-200	F- 4	10	7	3.25	SPILTUHUN
SS-300	WS-300	F-10	10	13	4.00	SPILTRIHUN
SS-500	WS-500	F-13	10	14	4.50	SPILFIHUN

PERMAFLECTOR INTERIOR FLOODS

The use of Interior Floods parallels the use of Interior Spots but will be preferred where a somewhat broader beam of light with less intense beam center is desired.

Other Uses—Supplementary illumination of automobile show rooms, where it is desired to flood the entire room in addition to the regular interior and window lighting; and for night lighting and emergency lighting service. A single Flood, placed at the front of a small store, usually over

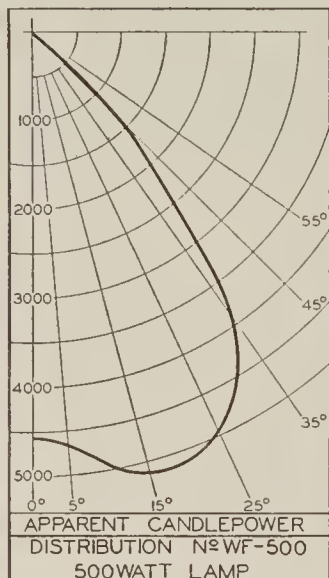
the entrance, will serve to flood the entire interior during the night as a protection against burglary.

Spacing—The number of Interior Floods to be installed in a window, the same as in the case of Spots, depends upon the psychological effect at which the display man is aiming. Usually two floods or spots should be provided in each window as an auxiliary to the window lighting. Extra convenience outlets should be provided in each window in order to properly serve these units.

INTERIOR FLOOD NO. WF-500



No. WF-500



Dimensions:

Overall height including bracket—18 inches.
Bottom opening circular—Diam., 11 $\frac{3}{8}$ inches.

Lamp Size—

500 watt PS-40 or 300 watt PS-35.

Consists of:

Permalector No. E-500-GO.
Bracket—complete as shown, including 30 inches of cord and plug.

Standard Quantity—1

Weight, Approx. 9 lbs.

Retail Price, Each:

Interior Flood No. WF-500 as shown.....\$12.00
Permalector No. E-500-GO (Glass only).....\$6.85
Bracket only\$6.00

Code:

Interior Flood No. WF-500.....WINFLUFIVE
Permalector No. E-500-GOEFIHUGLA
Bracket onlyWINFLIBRAC

Additional Equipment—for use with No. WF-500.

May Be Mounted on Knockout Strip—No. KO-1 with Hub No. KO-10 and Flange No. KO-12. (When ordering WF-500 for this service ask for small base plate).

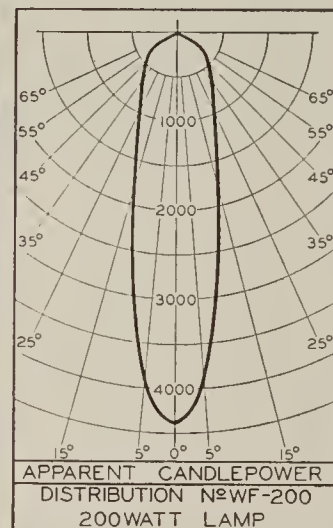
For Louvered Lighting: Use

Parallel Louver No. EME-500
Concentric Louver No. EME-500-C.

INTERIOR FLOOD NO. WF-200



No. WF-200



Dimensions:

Overall height including bracket—11 $\frac{1}{4}$ inches.
Bottom opening circular—Diameter, 9 $\frac{3}{8}$ inches.

Lamp Size: 200 watt PS-30.

Consists of:

Permalector No. I-201-GO.
Bracket—complete as shown, including 30 inches of cord and plug.

Standard Quantity—1

Weight, Approx. 5 lbs.

Retail Price, Each:

Interior Flood No. WF-200.....\$7.50
Permalector No. I-201-GO (Glass only)\$4.00
Bracket only\$4.00

Code:

Interior Flood No. WF-200.....WINFLUD
Permalector No. I-201-GOWINFLUGLA
Bracket onlyWINFLUDBRA

Additional Equipment—for use with WF-200.

May Be Mounted on Knockout Strip—No. KO-1 with Hub No. KO-10 and Flange No. KO-12.

For Colored Lighting: Use Color-Lite No. 2 or No. 2-DB.

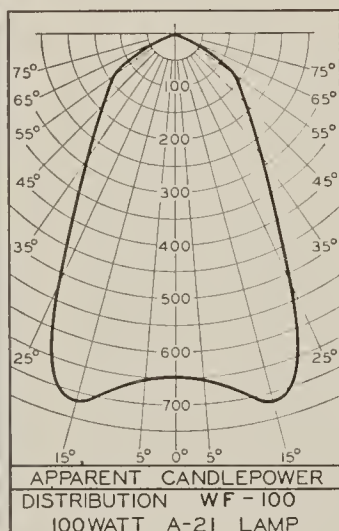
For Louvered Lighting: Use

Parallel Louver No. EM-54.
Concentric Louver No. EM-54-C.

INTERIOR FLOOD NO. WF-100



No. WF-100



Dimensions:

Overall height including bracket—10 $\frac{1}{2}$ inches.
Bottom opening circular—Diameter 6 $\frac{3}{4}$ inches.

Lamp Size—100 watt A-21.

Consists of:

Permalector No. I-60.
Bracket—complete as shown, including 30 inches of cord and plug.

Standard Quantity—1

Weight, Approx. 4 lbs.

Retail Price, Each:

Interior Flood No. WF-100.....\$6.00
Permalector No. I-60 (Glass only).....\$2.00
Bracket only\$4.00

Code:

Interior Flood No. WF-100WINFLUDUN
Permalector No. I-60EYESIX
Bracket onlyWINFLUBRA

Additional Equipment—for use with WF-100.

May Be Mounted on Knockout Strip—No. KO-1 with Hub No. KO-10 and Flange No. KO-12.

For Colored Lighting: Use Color-Lite No. 4-A or No. 4-ADB.

For Louvered Lighting: Use Parallel Louver No. EM-77,
Concentric Louver No. EM-77-C.



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR INSTALLATIONS



Architect—Max A. Bernhardt.

Electrical Contractor—Electro Construction Company.

S. Kind & Sons, Philadelphia, Pa., is one of the Nation's best lighted jewelry stores. Recessed and concealed Permaflectors provide 140 foot-candles of uniform direct illumination on the tops of the sales counters to display merchandise advantageously.



Kitty Kelly Stores

Chicago, Illinois



Hartdegen Jewelers
Newark, N. J.

Designer: Charles S. Telchin
New York, N. Y.



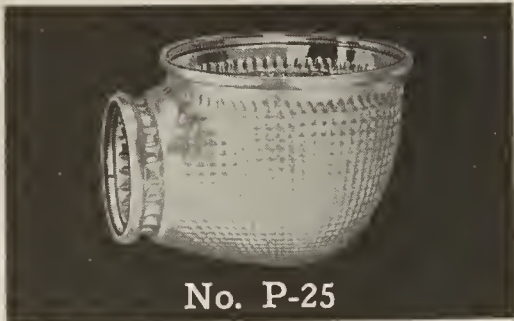
P-TYPE PERMAFLECTORS FOR INDIRECT LIGHTING

(Should Not be Used for Down Lighting Service)

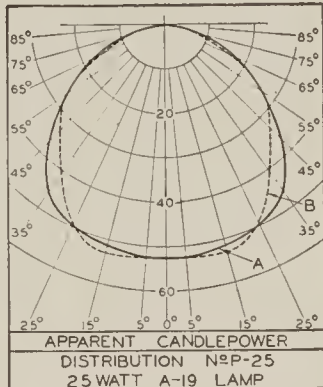
The P-Type Permaflectors are designed for use with lamps in the horizontal position and find their greatest use for indirect lighting from coves. They are also used in shallow

indirect lighting bowls employing a number of lamps radiating horizontally from center body carrying the sockets.

PERMAFLECTOR NO. P-25



No. P-25



Standard Quantity—24
Retail Price, Each.....\$1.75
CodePATUFI
Minimum Spacing—6 inches on centers.
Dimensions—Opening, 3 1/8 inches diameter; Height, 3 1/4 inches; Length, 4 3/8 inches.
Lamp Size—25 watt A-19; 40 watt A-19.
Additional Equipment—for use with No. P-25.

Holder:

For Porcelain Angle Socket No. 3—Use
2 1/4" Form "S" Holder for 25 Watt A-19 Lamp.
2 1/4" Form "SL" Holder for 40 Watt A-19 Lamp.
For Grooved Porcelain Sockets—Use
2 1/4" Form "SR" Holder for 25 Watt A-19 Lamp.

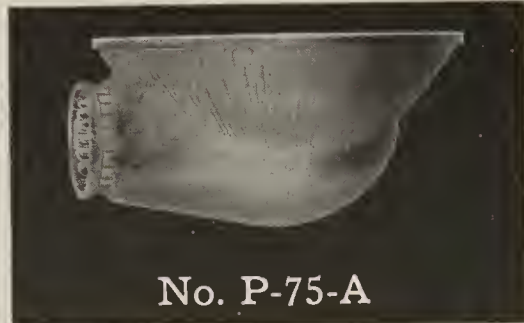
May Be Installed With:

Outlet Box Cover Assembly No. B-2-3/4 or B-2-4 with 2 1/4" Form 'S' or 'SL' holder.

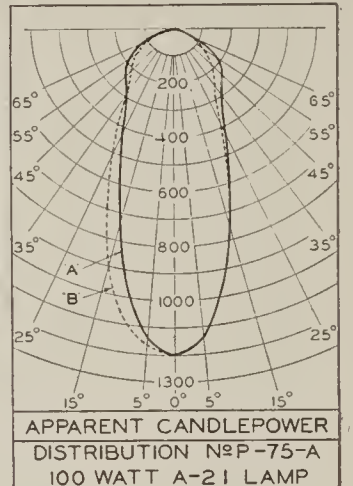
May Be Mounted on:

Conduit No. 2-A with 2 1/4" Form 'S' or 'SL' holder.

PERMAFLECTOR NO. P-75-A



No. P-75-A



Standard Quantity6
WeightApprox. 7 lbs.
Retail Price, Each.....\$2.50
CodePASEFA
Minimum Spacing—7 3/4" on centers.
Dimensions—Opening, 6 3/4 in. dia.; Height, 3 5/8 in.; Length, 7 in.
Lamp Size—100 watt A-21 with 5/8" socket extension.
Additional Equipment—for use with No. P-75-A.

Holder:

For Porcelain Angle Socket No. 3—Use
2 1/4" Form "S" Holder.
For Grooved Porcelain Socket—Use
2 1/4" Form "SR" Holder.

May Be Installed With:

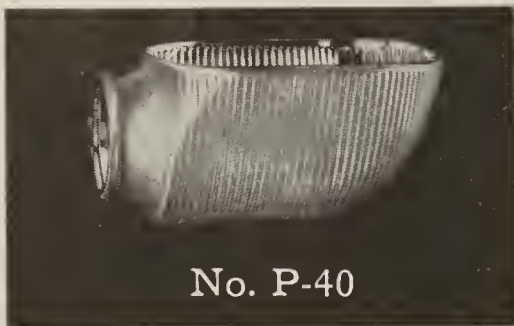
Outlet Box Cover Assembly No. B-2-3/4 or B-2-4 with 2 1/4" Form 'S' holder.

May Be Mounted on:

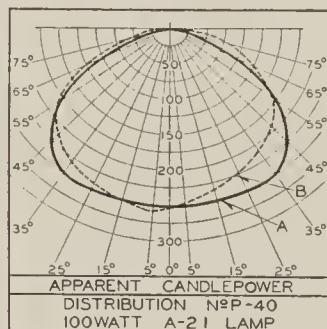
Conduit No. 2-A with 2 1/4" Form 'S' holder.

For Colored Lighting: Use Color-Lite No. 4-A or No. 4-ADB.

PERMAFLECTOR NO. P-40



No. P-40



Standard Quantity—24
Retail Price, Each.....\$2.00
CodePAFORT
Minimum Spacing—7 3/4 inches on centers.
Dimensions—Height, 2 3/4 in., Width, 4 1/4 in., Length, 5 1/2 in.
Lamp Size—60 watt A-19; 75 or 100 watt A-21.
Additional Equipment—for use with No. P-40.

Holder:

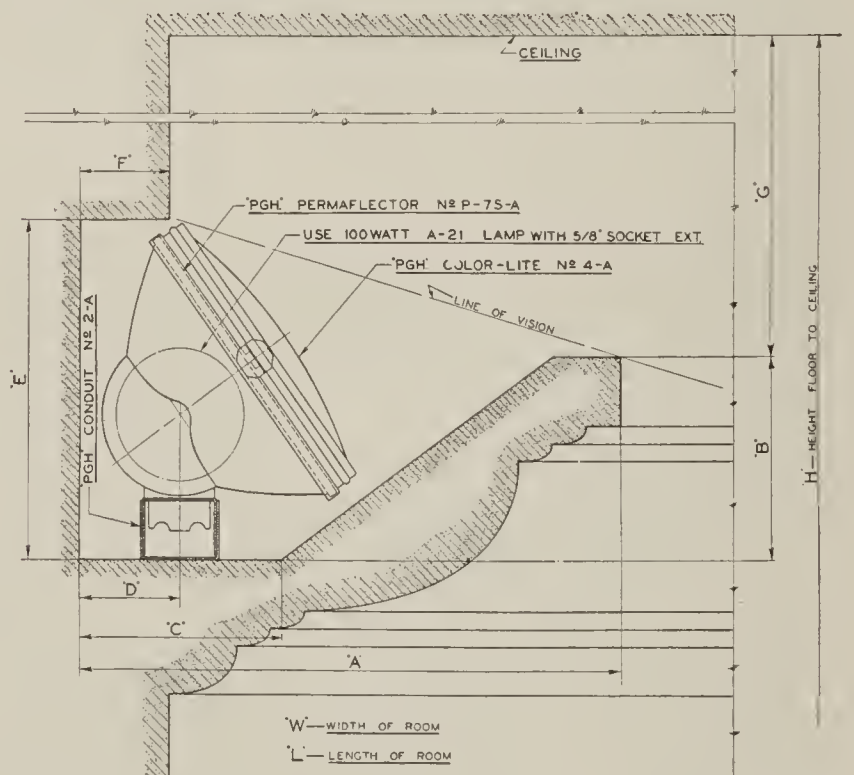
For Porcelain Angle Socket No. 3—Use
2 1/4" Form "S" Holder for 60 watt A-19 Lamp.
2 1/4" Form "SL" Holder for 75 or 100 watt A-21 Lamp.
For Grooved Porcelain Sockets—Use
2 1/4" Form "SR" Holder for 60 watt A-19 Lamp.
2 1/4" Form "SLR" Holder for 75 or 100 watt A-21 Lamp.

May Be Installed With:

Outlet Box Cover Assembly No. B-2-3/4 or B-2-4 with 2 1/4" Form 'S' or 'SL' holder.

May Be Mounted on:

Conduit No. 2-A with 2 1/4" Form 'S' or 'SL' holder.



COVE LIGHTING DESIGN

In the above sketch, the essential dimensions to be supplied to our engineering department when requesting a recommendation, are indicated by the letters, A, B, C, D, E, F, G, H, L, W. Although a flat ceiling is shown, an arched ceiling may be treated in a similar manner with equally good results.

The Color-Lite No. 4 is employed where colored illumination is desired.

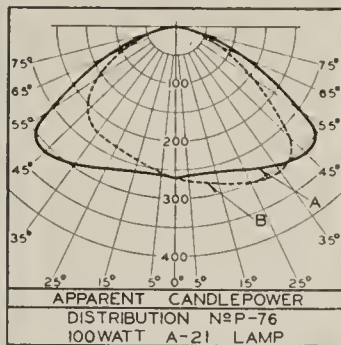


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. P-76



No. P-76



Standard Quantity—24
 Retail Price, Each.....\$2.00
 CodePASESIX

Minimum Spacing—7½ inches on centers.

Dimensions—Opening, 4¾ in. dia.; Height, 3 in.; Length, 5⅝ in.

Lamp Size: 60 Watt A-19; 75 or 100 Watt A-21.

Additional Equipment—for use with No. P-76.

Holder:

- For Porcelain Angle Socket No. 3—Use
 2¼" Form "S" Holder for 60 watt A-19 Lamp.
 2¼" Form "SL" Holder for 75 or 100 Watt A-21 Lamp.
- For Grooved Porcelain Socket—Use
 2¼" Form "SR" Holder for 60 watt A-19 Lamp.
 2¼" Form "SLR" Holder for 75 or 100 watt A-21 Lamp.

May Be Installed With:

- Outlet Box Cover Assembly No. B-2-3¼ or B-2-4 with 2¼" Form 'S' or 'SL' holder.

May Be Mounted on:

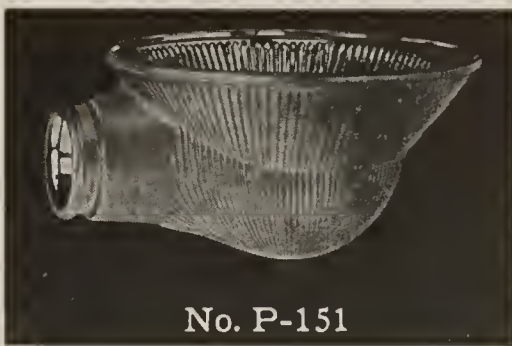
- Conduit No. 2-A with 2¼" Form 'S' or 'SL' holder.

For Colored Lighting: Use

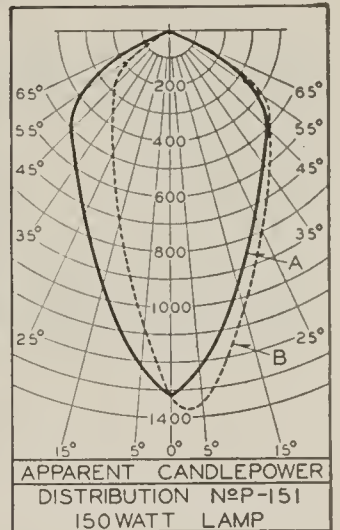
- Color-Lite No. 12-A or No. 12-ADB.

Weight, Approx. 15 lbs.

PERMAFLECTOR NO. P-151



No. P-151



Standard Quantity6

WeightApprox. 7 lbs.

Retail Price, Each.....\$2.75

CodePEEHUNFONE

Minimum Spacing—8¼ inches on centers.

Dimensions—Opening, 6¾ inches diameter; Height, 3⅞ inches; Length 7⅞ inches.

Lamp Size—150 watt PS-25

Additional Equipment—for use with No. P-151.

Holder:

- For Porcelain Angle Socket No. 3—Use
 2¼" Form "S" Holder.
- For Grooved Porcelain Socket—Use
 2¼" Form "SR" Holder.

May Be Installed With:

- Outlet Box Cover Assembly No. B-2-3¼ or B-2-4 with 2¼" Form 'S' holder.

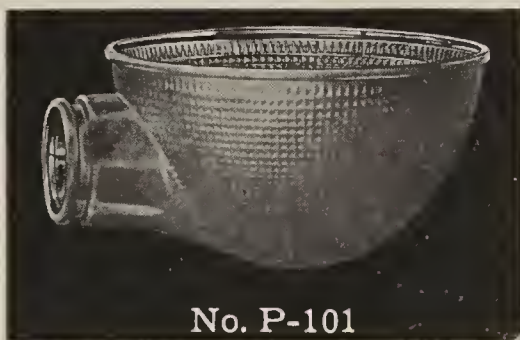
May Be Mounted on:

- Conduit No. 2-A with 2¼" Form 'S' holder.

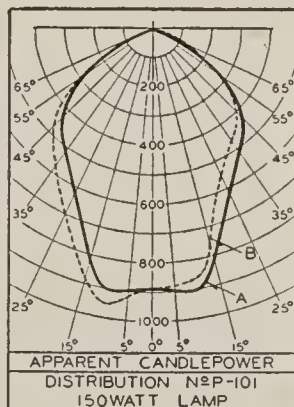
For Colored Lighting: Use

- Color-Lite No. 4-A or No. 4-ADB.

PERMAFLECTOR NO. P-101



No. P-101



Standard Quantity—6

Weight, Approx. 8 lbs.

Retail Price, Each.....\$2.50

CodePAHUNDONE

Minimum Spacing—9 inches on centers.

Dimensions—Opening, 6¾ in. dia.; Height, 3⅞ in.; Length, 7¾ in.

Lamp Size—150 watt PS-25

Additional Equipment—for use with No. P-101.

Holder:

- For Porcelain Angle Socket No. 3—Use
 2¼" Form "S" Holder.
- For Grooved Porcelain Socket—Use
 2¼" Form "SR" Holder.

May Be Installed With:

- Outlet Box Cover Assembly No. B-2-3¼ or B-2-4 with 2¼" Form "S" holder.

May Be Mounted on:

- Conduit No. 2-A with 2¼" Form 'S' holder.

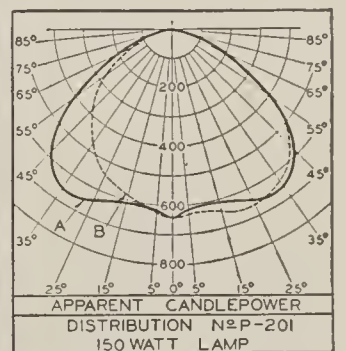
For Colored Lighting: Use

- Color-Lite No. 4-A or No. 4-ADB.

PERMAFLECTOR NO. P-201



No. P-201



Standard Quantity—6

Weight, Approx. 9 lbs.

Retail Price, Each.....\$3.00

CodePATTUOWON

Minimum Spacing—9½ inches on centers.

Dimensions—Opening, 6¾ inches diameter; Height, 4⅜ inches; Length, 7¾ inches.

Lamp Size—150 watt PS-25; 200 watt PS-30.

Additional Equipment—for use with No. P-201.

Holder:

- For Porcelain Angle Socket No. 3—Use
 2¼" Form "S" Holder for 150 watt A-25 Lamp.
 2¼" Form "L" Holder for 200 watt PS-30 Lamp.
- For Grooved Porcelain Socket—Use
 2¼" Form "SR" Holder for 150 watt A-25 Lamp.
 2¼" Form "LR" Holder for 200 watt PS-30 Lamp.

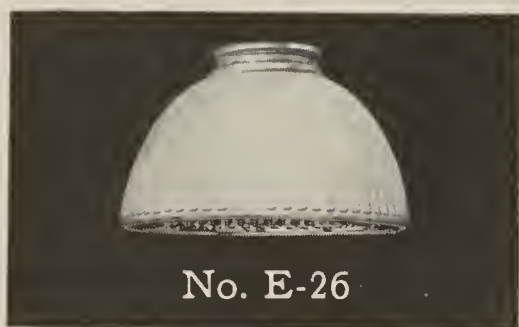
May Be Installed With:

- Outlet Box Cover Assembly No. B-2-3¼ or B-2-4 with 2¼" Form 'S' or 'L' holder.

For Colored Lighting: Use

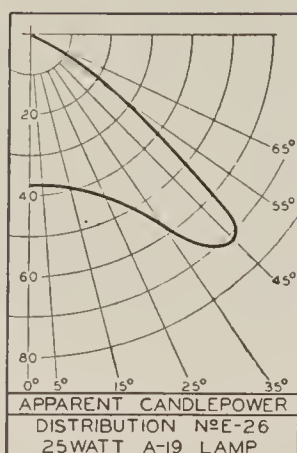
- Color-Lite No. 4-A or No. 4-ADB.

PERMAFLECTOR NO. E-26 SERIES



No. E-26

An excellent small recessed unit for lighting in residences.



Minimum Spacings: for
Mounting on Conduit No. 1—6 inches on centers.
Mounting on Knockout Strip No. KO-1—6 inches on centers.

Dimensions:

Height Permaflector No. E-26—3 7/8 inches.
Bottom Opening Circular—Diameter, 5 5/8 inches.
Lamp Size—25 Watt A-19; 60 Watt A-19.

PERMAFLECTOR NO. E-26

Standard Quantity—20 Weight, Approx. 14 lbs.
Retail Price, Each.....\$1.80
CodeETUSIX

Additional Equipment—for use with No. E-26.

Holder:

For Grooved Porcelain Socket—Use
2 1/4" Form "SR" Holder for 25 Watt A-19 Lamp.
2 1/4" Form "SLR" Holder for 60 Watt A-19 Lamp.
For Porcelain Sockets No. 1 or No. KO-8—Use
2 1/4" Form "S" Holder for 25 Watt A-19 Lamp.
2 1/4" Form "SL" Holder for 60 Watt A-19 Lamp.

May Be Installed With: Outlet Box Cover Assembly No. B-1-3/4 or B-1-4 with 2 1/4" Form "S" or "SL" Holder.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1 with 2 1/4" Form "S" or "SL" Holder.

COMBINATION NO. E-26-2

(For Recessed Installation)
(Use 60 Watt A-19 Lamp)

Consists of:

Permaflector No. E-26.
Outlet Box Cover Assembly No. B-1-3/4-SL.
Flush Mounting Ring No. 28.

Standard Quantity—20 Weight, Approx. 29 lbs.
Retail Price, Each.....\$2.70
CodeETUSIXTU

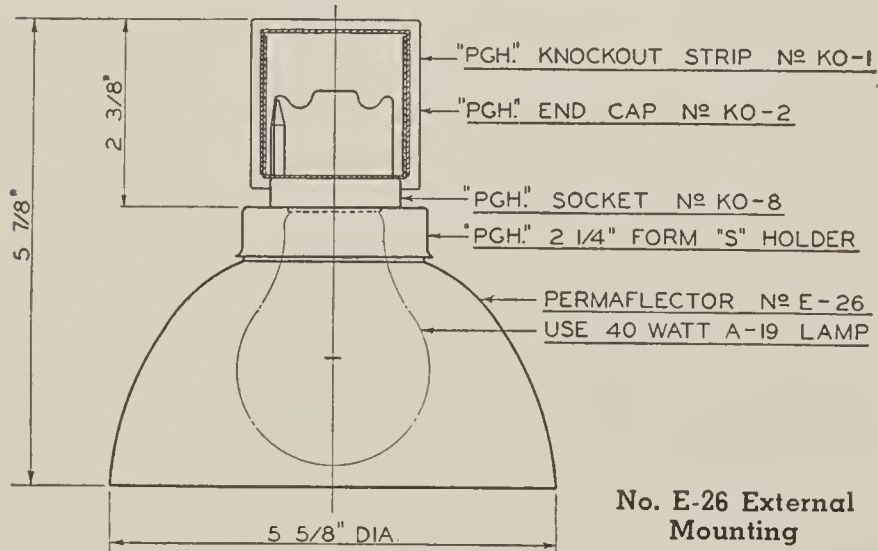
Ceiling Space Required:

Space Above Ceiling Line—5 7/8 inches.
Opening to be Cut in Ceiling, Circular—Diam., 5 7/8 inches.

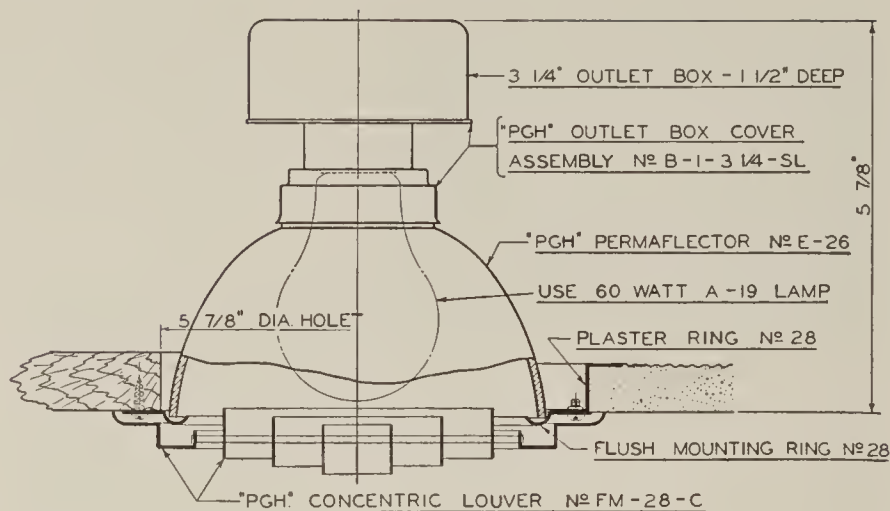
Additional Equipment—for use with No. E-26-2.

For Plaster Ceiling—Use Plaster Ring No. 28.

For Louvered Lighting—Use Concentric Louver No. FM-28-C.



No. E-26 External Mounting



HALF SECTION
THRU WOOD CEILING

HALF SECTION
THRU PLASTER CEILING

E-26-2 Recessed in Ceiling and Louvered

COMBINATION NO. E-26-4

(Hinged Ceiling Roundel Installation)
(Use 60 Watt A-19 Lamp)

Consists of:

Permaflector No. E-26.
Outlet Box Cover Assembly No. B-1-3/4-SL.
Hinged Ceiling Roundel No. 11-B.

Standard Quantity—20 Weight, Approx. 38 lbs.
Retail Price, Each.....\$5.15
CodeETUSIXFO

Ceiling Space Required:

Space Above Ceiling Line—6 1/4 inches.
Opening to be Cut in Ceiling, Circular—Diam., 7 inches.

Additional Equipment—for use with No. E-26-4.

For Plaster Ceiling—Use Plaster Ring No. 11-B.

COMBINATION NO. E-26-5

(Hinged Concentric Louver Installation)
(Use 60 Watt A-19 Lamp)

Consists of:

Permaflector No. E-26.
Outlet Box Cover Assembly No. B-1-3/4-SL.
Hinged Concentric Louver No. 11-B.

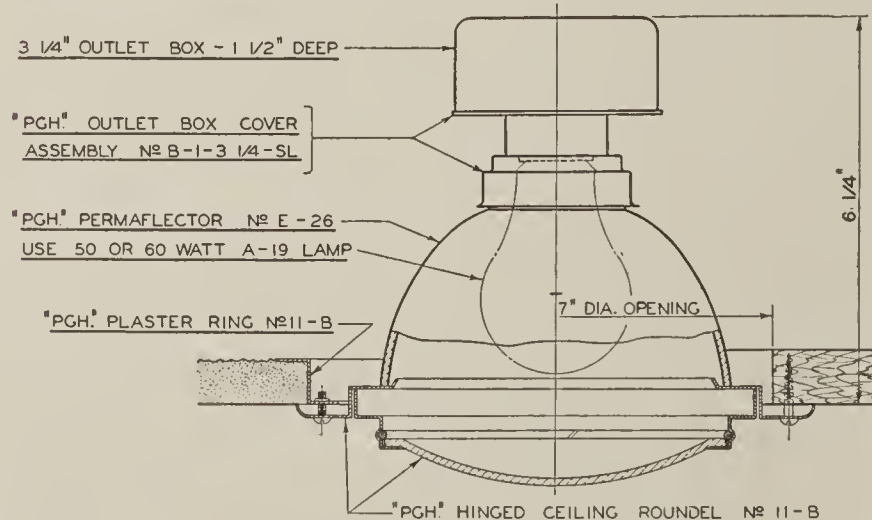
Standard Quantity—20 Weight, Approx. 35 lbs.
Retail Price, Each.....\$5.15
CodeETUSIXFI

Ceiling Space Required:

Space Above Ceiling Line—6 1/4 inches.
Opening to be Cut in Ceiling, Circular—Diam., 7 inches.

Additional Equipment—for use with E-26-5.

For Plaster Ceiling—Use Plaster Ring No. 11-B.



HALF SECTION
THRU PLASTER CEILING

HALF SECTION
THRU WOOD CEILING

No. E-26-4 Recessed in Ceiling



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. E-26 SERIES

ENCLOSED COMBINATIONS

(For Recessed Installations)
(Use 60 Watt A-19 Lamp)

Where mechanical protection of the recessed Permalector is necessary the addition of a spun aluminum housing ac-

complishes the object. We list and illustrate below our line of fully enclosed units for Permalector No. E-26.

COMBINATION NO. E-26-7

(With Hinged Ceiling Roundel)

Consists of:

Permalector No. E-26.
Porcelain Socket No. 1.
Spun Aluminum Housing.
Holder.
4" Octagonal Outlet Box, 1 5/8" deep.
Hinged Ceiling Roundel No. 11-B.

Standard Quantity—1

Weight, Approx. 4 lbs.

Retail Price, Each\$8.10

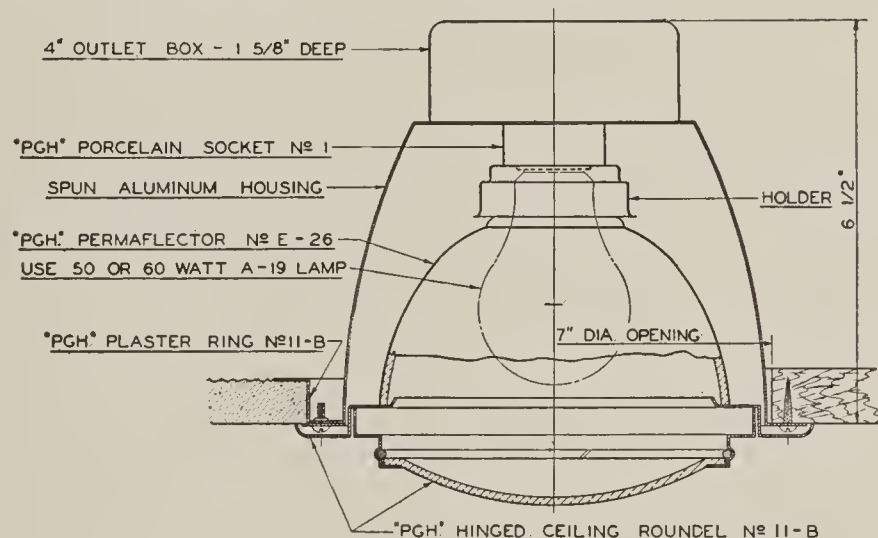
CodeETUSIXSET

Ceiling Space Required:

Space Above Ceiling Line—6 1/2 inches.
Opening to be Cut in Ceiling, Circular—Diam., 7 inches.

Additional Equipment—for use with No. E-26-7.

For Plaster Ceiling—Use Plaster Ring No. 11-B.



HALF SECTION THRU PLASTER CEILING HALF SECTION THRU WOOD CEILING
No. E-26-7 Recessed in Ceiling

COMBINATION NO. E-26-8

(With Hinged Concentric Louver)

Consists of:

Permalector No. E-26.
Porcelain Socket No. 1.
Spun Aluminum Housing.
Holder.
4" Octagonal Outlet Box, 1 5/8" deep.
Hinged Concentric Louver No. 11-B.

Standard Quantity—1

Weight, Approx. 4 lbs.

Retail Price, Each\$8.10

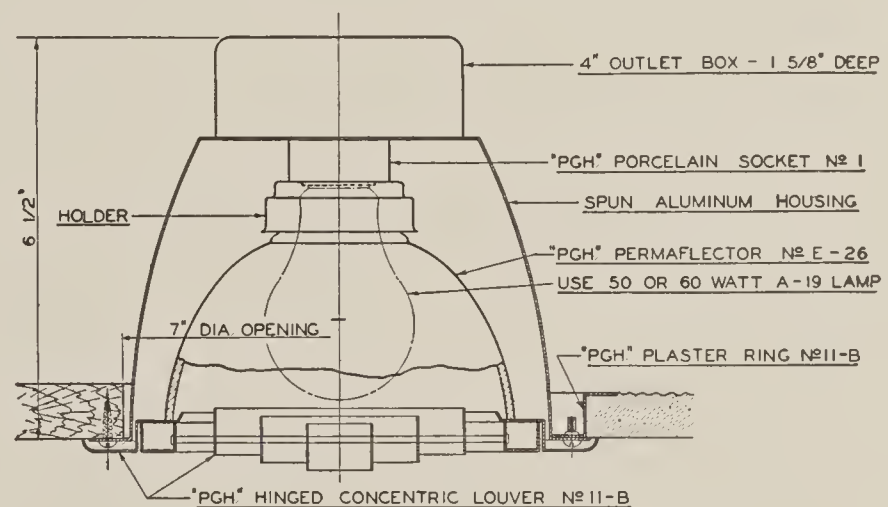
CodeETUSIXAT

Ceiling Space Required:

Space Above Ceiling Line—6 1/2 inches.
Opening to be Cut in Ceiling, Circular—Diam., 7 inches.

Additional Equipment—for use with No. E-26-8.

For Plaster Ceiling—Use Plaster Ring No. 11-B.



HALF SECTION THRU WOOD CEILING HALF SECTION THRU PLASTER CEILING
No. E-26-8 Recessed in Ceiling



Rhea's Bakery

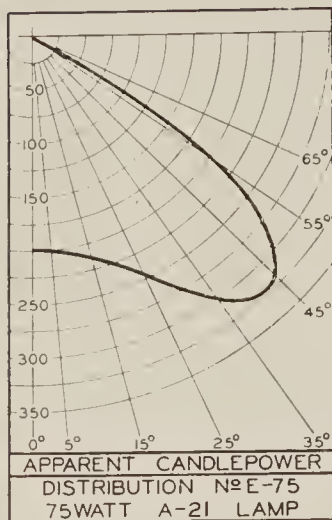
Pittsburgh, Pa.



PERMAFLECTOR NO. E-75 SERIES



No. E-75



Application—A broadly distributing reflector for direct lighting service, where a close spacing of low wattage lamps is employed for relatively low mounting. May also be recessed in ceiling.

Spacings on Centers:

For uniform illumination, should not exceed height of bottom of reflector above work plane.

Minimum Spacings: for

Mounting on Conduit No. 1—7½ inches on centers.

Mounting on Knockout Strip No. KO-1—9 inches on centers.

Dimensions:

Height Permaflector No. E-75—4¾ inches.

Bottom Opening Circular—Diameter, 6¾ inches.

Lamp Size: 60 Watt A-19; 75 or 100 Watt A-21.

PERMAFLECTOR NO. E-75

Standard Quantity—8

Weight, Approx. 9 lbs.

Retail Price, Each.....\$2.00

CodeESEFI

Additional Equipment—for use with No. E-75.

Holder:

For Grooved Porcelain Socket—Use

2¼" Form "SR" Holder for 60 Watt A-19 Lamp.

2¼" Form "SLR" Holder for 75 or 100 Watt A-21 Lamp.

For Porcelain Sockets No. 1 or No. KO-8—Use

2¼" Form "S" Holder for 60 Watt A-19 Lamp.

2¼" Form "SL" Holder for 75 or 100 Watt A-21 Lamp.

May Be Installed With: Outlet Box Cover Assembly No. B-1-3¼ or B-1-4 with 2¼" Form "S" or "SL" Holder.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1 with 2¼" Form "S" or "SL" Holder.

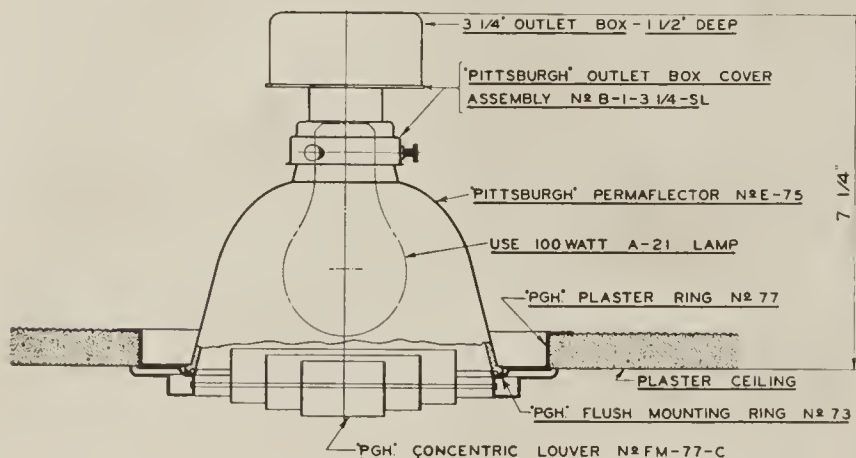
For Colored Lighting: Use

Color-Lite No. 4-A or No. 4-ADB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-77 for external mounting.

Concentric Louver No. EM-77-C for external mounting.



E-75-2 Recessed in Plaster Ceiling and Louvered.

COMBINATION NO. E-75-2

(For Recessed Installations)

(Use 100 Watt A-21 Lamp)

Consists of:

Permaflector No. E-75.

Outlet Box Cover Assembly No. B-1-3¼-SL.

Flush Mounting Ring No. 73.

Standard Quantity—8

Weight, Approx. 16 lbs.

Retail Price, Each.....\$3.08

CodeESEFITU

Ceiling Space Required:

Space Above Ceiling Line—7¼ inches.

Opening to be Cut in Ceiling, Circular—Diam., 7 inches.

Additional Equipment—for use with No. E-75-2.

For Plaster Ceiling—Use Plaster Ring No. 77.

For Colored Lighting—Use Color-Lite No. 41 or No. 41-DB.

For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 41 with or without Wire Guard No. WG-4.

For Louvered Lighting—Use

Parallel Louver No. FM-77.

Concentric Louver No. FM-77-C.

COMBINATION NO. E-75-4

(Hinged Ceiling Roundel Installation)

(Use 100 Watt A-21 Lamp)

Consists of:

Permaflector No. E-75.

Outlet Box Cover Assembly No. B-1-3¼-SL.

Hinged Ceiling Roundel No. 4-B.

Standard Quantity—8

Weight, Approx. 27 lbs.

Retail Price, Each.....\$5.70

CodeESEFIFO

Ceiling Space Required:

Space Above Ceiling Line—7⅝ inches.

Opening to be Cut in Ceiling, Circular—Diam., 7⅝ inches.

Additional Equipment—for use with No. E-75-4.

For Plaster Ceiling—Use Plaster Ring No. 4-B.

For Protection of Roundel—Use Wire Guard No. WG-4.

COMBINATION NO. E-75-5

(Hinged Concentric Louver Installation)

(Use 100 Watt A-21 Lamp)

Consists of:

Permaflector No. E-75.

Outlet Box Cover Assembly No. B-1-3¼-SL.

Hinged Concentric Louver No. 4-B.

Standard Quantity—8

Weight, Approx. 22 lbs.

Retail Price, Each.....\$5.70

CodeESEFIFI

Ceiling Space Required—Same as for No. E-75-4.

Additional Equipment—for use with No. E-75-5.

For Plaster Ceiling—Use Plaster Ring No. 4-B.



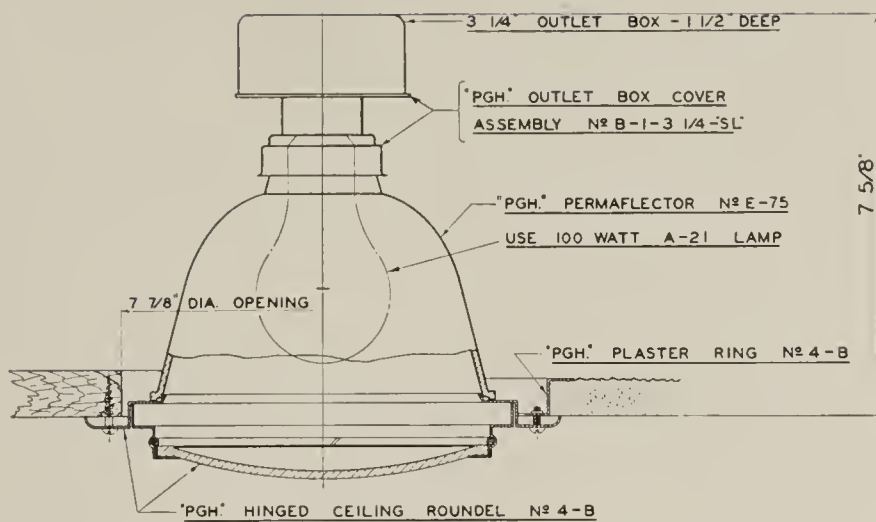
United Airlines

San Francisco, Calif.



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

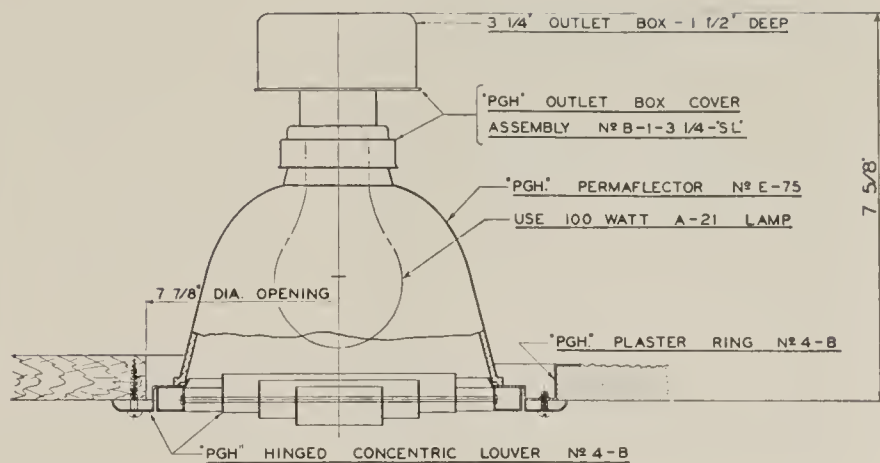
PERMAFLECTOR NO. E-75 SERIES



HALF SECTION
THRU WOOD CEILING

HALF SECTION
THRU PLASTER CEILING

No. E-75-4 Recessed in Ceiling



HALF SECTION
THRU WOOD CEILING

HALF SECTION
THRU PLASTER CEILING

No. E-75-5 Recessed in Ceiling

ENCLOSED COMBINATIONS

(For Recessed Installations)

(Use 75 or 100 Watt A-21 Lamp)

Where mechanical protection of the recessed Permaflexor is necessary the addition of a spun aluminum housing ac-

complishes the object. We list and illustrate below our line of fully enclosed units for Permaflexor No. E-75.

COMBINATION NO. E-75-7

(With Hinged Ceiling Roundel)

Consists of:

- Permaflexor No. E-75.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- Holder.
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Ceiling Roundel No. 4-B.

Standard Quantity—1

Weight, Approx. 6 lbs.

Retail Price, Each \$9.75

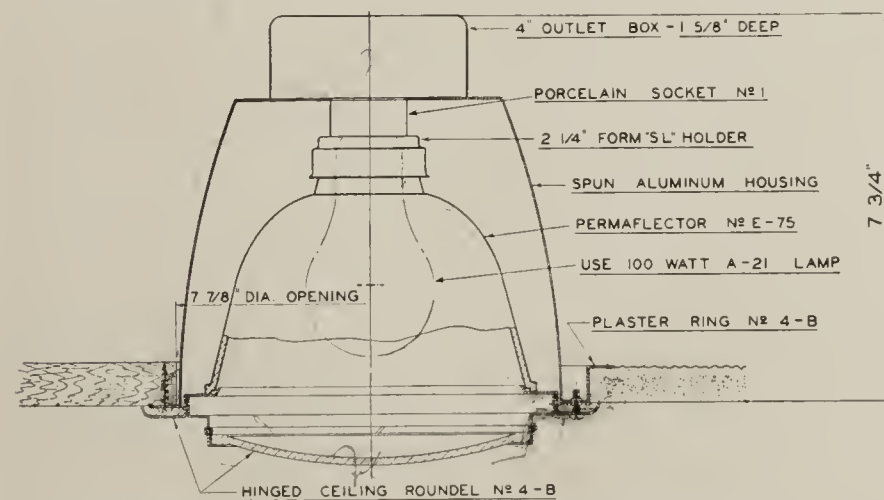
Code ESEFISET

Ceiling Space Required:

- Space Above Ceiling Line—7 3/4 inches.
- Opening to be Cut in Ceiling, Circular—Diam., 7 7/8 inches.

Additional Equipment—for use with No. E-75-7.

- For Plaster Ceiling—Use Plaster Ring No. 4-B.
- For Protection of Roundel—Use Wire Guard No. WG-4.



HALF SECTION
THRU WOOD CEILING

HALF SECTION
THRU PLASTER CEILING

No. E-75-7 Recessed in Ceiling

COMBINATION NO. E-75-8

(With Hinged Concentric Louver)

Consists of:

- Permaflexor No. E-75.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- Holder.
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Concentric Louver No. 4-B.

Standard Quantity—1

Weight, Approx. 5 lbs.

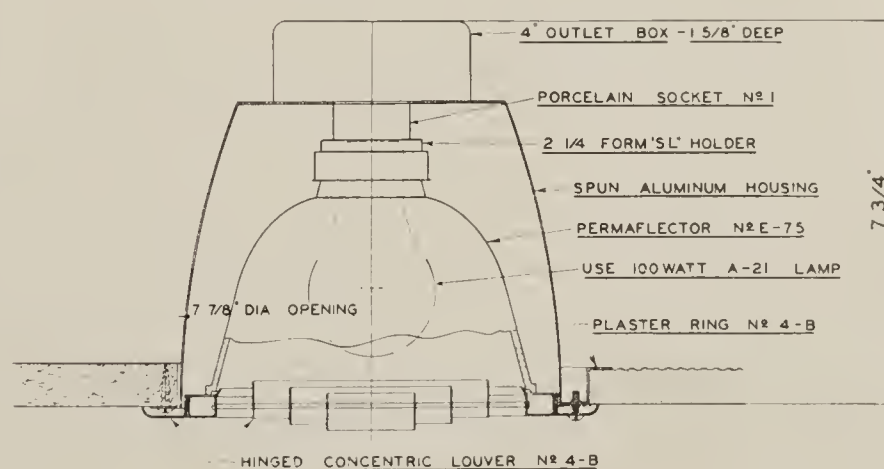
Retail Price, Each \$9.75

Code ESEFIAT

Ceiling Space Required—Same as for No. E-75-7.

Additional Equipment—for use with No. E-75-8.

For Plaster Ceiling—Use Plaster Ring No. 4-B.



HALF SECTION
THRU WOOD CEILING

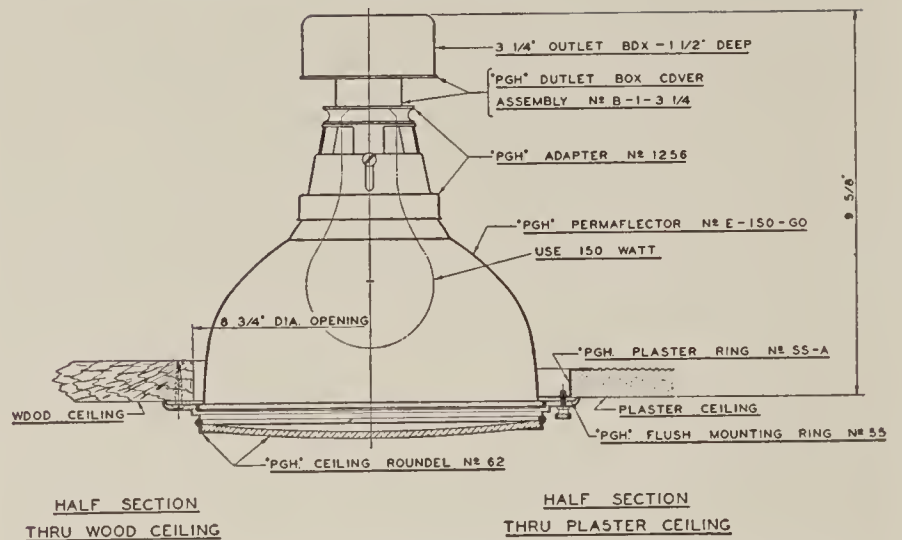
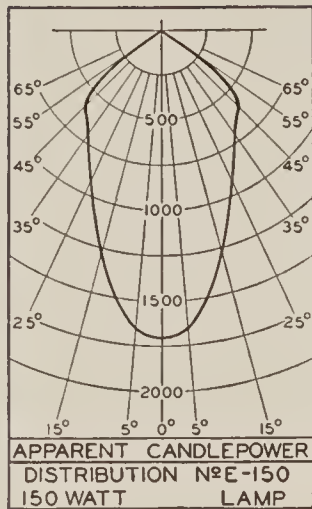
HALF SECTION
THRU PLASTER CEILING

No. E-75-8 Recessed in Ceiling

PERMAFLECTOR NO. E-150 SERIES



No. E-150



E-150-2 Recessed in Ceiling with Ceiling Roundel No. 62

COMBINATION NO. E-150-2

(For Recessed Installation)

Consists of:

- Permaflector No. E-150.
- Outlet Box Cover Assembly No. B-1-3 1/4.
- Flush Mounting Ring No. 55.

Standard Quantity—7

Weight, Approx. 20 lbs.

Retail Price, Each\$4.37

CodeONFITU

Ceiling Space Required:

- Space Above Ceiling Line—9 5/8 inches (Adapter Extended).
- Opening to be Cut in Ceiling, Circular—Diam., 8 3/4 inches.

Additional Equipment—for use with No. E-150-2.

- For Plaster Ceiling**—Use Plaster Ring No. 55-A.
- For Colored Lighting**—Use Color-Lite No. 61 or No. 61-DB.
- For Ceiling Roundel (Not Hinged)**—Use Ceiling Roundel No. 62 with or without Wire Guard No. WG-1.
- For Louvered Lighting**—Use Parallel Louver No. FM-55. Concentric Louver No. FM-55-C. Egg Crate Louver No. FEC-100.

COMBINATION NO. E-150-4

(Hinged Ceiling Roundel Installation)

Consists of:

- Permaflector No. E-150.
- Outlet Box Cover Assembly No. B-1-3 1/4.
- Hinged Ceiling Roundel No. 1-B.

Standard Quantity—7

Weight, Approx. 33 lbs.

Retail Price, Each\$7.70

CodeONFIFO

Ceiling Space Required:

- Space Above Ceiling Line—10 inches (Adapter Extended).
- Opening to be Cut in Ceiling, Circular—Diam., 9 3/4 inches.

Additional Equipment—for use with No. E-150-4.

- For Plaster Ceiling**—Use Plaster Ring No. 1-B.
- For Protection of Roundel**—Use Wire Guard No. WG-1.

COMBINATION NO. E-150-5

(Hinged Concentric Louver Installation)

Consists of:

- Permaflector No. E-150.
- Outlet Box Cover Assembly No. B-1-3 1/4.
- Hinged Concentric Louver No. 1-B.

Standard Quantity—7

Weight, Approx. 28 lbs.

Retail Price, Each\$7.70

CodeONFIFI

Ceiling Space Required:

- Space Above Ceiling Line—10 inches (Adapter Extended).
- Opening to be Cut in Ceiling, Circular—Diam., 9 3/4 inches.

Additional Equipment—for use with No. E-150-5.

- For Plaster Ceiling**—Use Plaster Ring No. 1-B.

Application—A broadly distributing reflector with a desirable concentration at center. Excellent for recessed down lighting of stores and similar interiors, gymnasiums, below mezzanine floors and other locations with low head room, recreation rooms in residences, entrance ways and marquees. Also good for exposed service in factories and warehouses.

Spacings On Centers:

For uniform illumination, should not exceed height of bottom of reflector above work plane.

Minimum Spacings: for

- Mounting on Conduit No. 1—9 inches on centers.
- Mounting on Knockout Strip No. KO-1—9 inches on centers.

Dimensions:

- Height with Adapter No. 1256 Extended—7 7/8 inches.
- Height with Adapter No. 1256 Compressed—6 3/4 inches.
- Height Permaflector No. E-150-GO—5 1/4 inches.
- Bottom Opening Circular—Diameter, 8 1/2 inches.

Lamp Size—

- 150 Watt PS-25, Adapter in extended position.
- 100 watt A-21, Adapter in compressed position, with 5/8" socket extension.

PERMAFLECTOR NO. E-150

Consists of:

- Permaflector No. E-150-GO and Adapter No. 1256.

Standard Quantity—7

Weight, Approx. 15 lbs.

Retail Price, Each\$3.50

CodeONFIO

Additional Equipment—for use with No. E-150.

May Be Installed With:

- Outlet Box Cover Assembly No. B-1-3 1/4 or B-1-4.

May Be Mounted On:

- Conduit No. 1 or Knockout Strip No. KO-1.

For Colored Lighting—Use

- Color-Lite No. 6 or No. 6-DB for external mounting.

For Louvered Lighting: Use

- Parallel Louver No. EM-55 for external mounting.
- Concentric Louver No. EM-55-C for external mounting.

PERMAFLECTOR NO. E-150-R

Consists of:

- Permaflector No. E-150-GO and Adapter No. 1256-R for use where grooved porcelain sockets are installed.

Standard Quantity—7

Weight, Approx. 15 lbs.

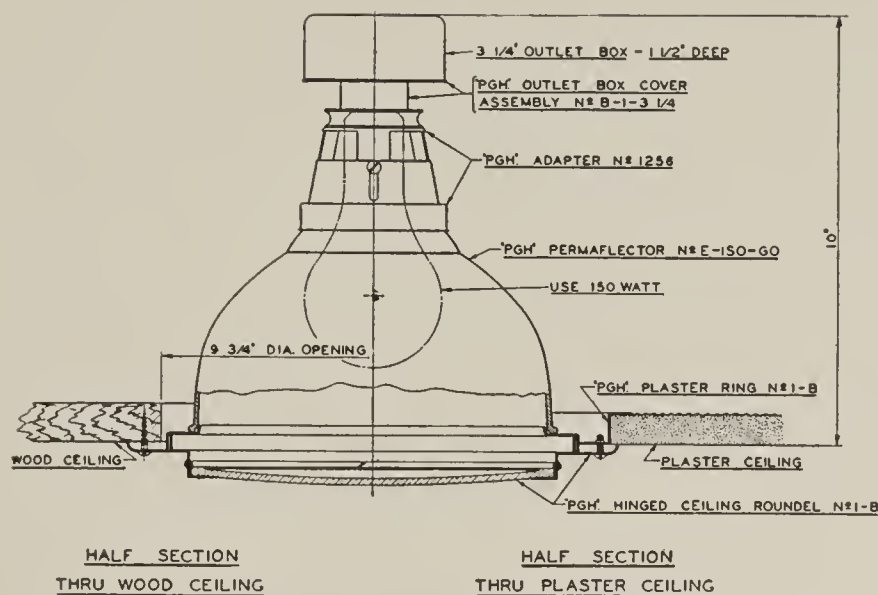
Retail Price, Each\$3.50

CodeENFIR

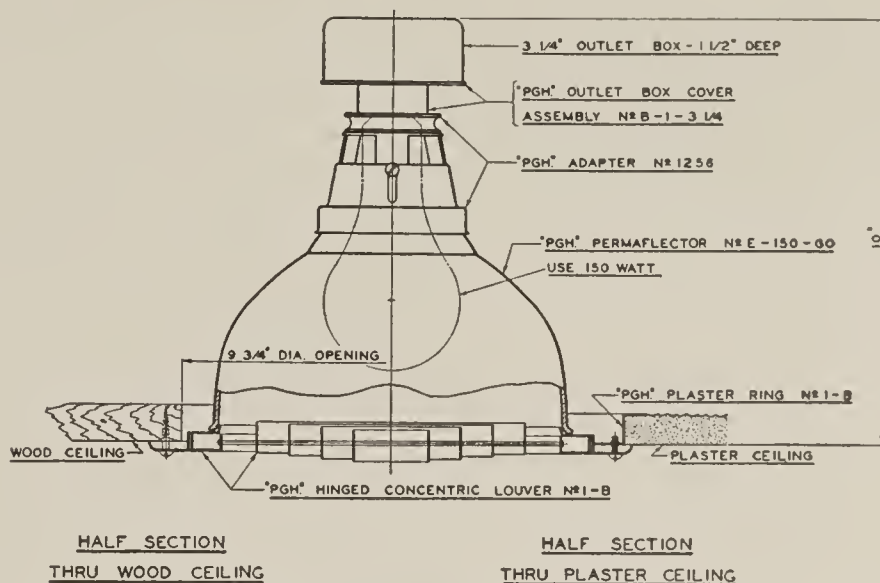
Additional Equipment—for use with No. E-150-R.

- For Colored Lighting**—Same as for No. E-150.
- For Louvered Lighting**—Same as for No. E-150.

PERMAFLECTOR NO. E-150 SERIES



No. E-150-4 Recessed in Ceiling



No. E-150-5 Recessed in Ceiling

ENCLOSED COMBINATIONS

(For Recessed Installations)

(Use 150 Watt PS-25 Lamp)

Where mechanical protection of the recessed Permaflexor is necessary the addition of a spun aluminum housing accom-

plishes the object. We list and illustrate below our line of fully enclosed units for Permaflexor No. E-150.

COMBINATION NO. E-150-7

(With Hinged Ceiling Roundel)

Consists of:

- Permaflexor No. E-150.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Ceiling Roundel No. 1-B.

Standard Quantity—1

Weight, Approx 11 lbs.

Retail Price, Each.....\$12.00

CodeONFISET

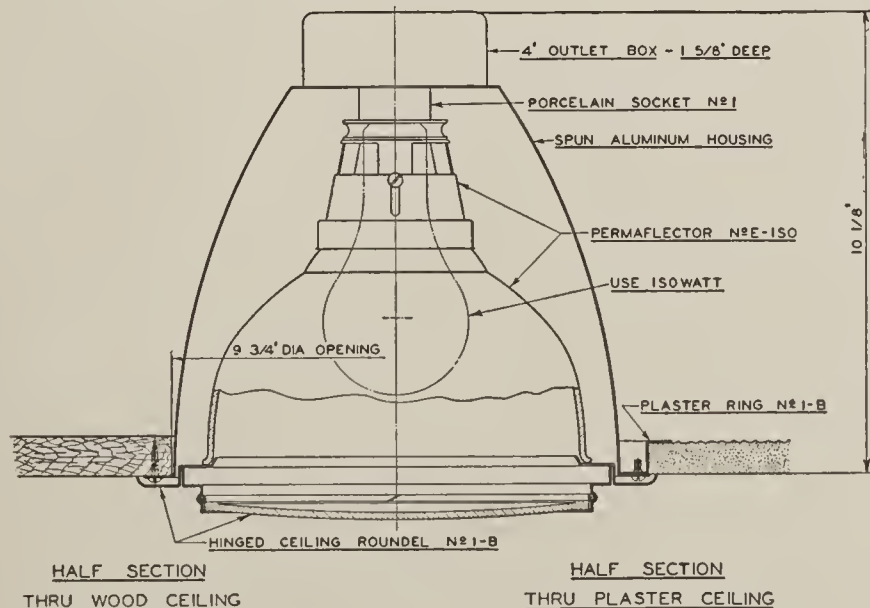
Ceiling Space Required:

- Space Above Ceiling Line—10 1/8 inches.
- Opening to be Cut in Ceiling, Circular—Diam., 9 3/4 inches.

Additional Equipment—for use with No. E-150-7.

For Plaster Ceiling—Use Plaster Ring No. 1-B.

For Protection of Roundel—Use Wire Guard No. WG-1.



No. E-150-7 Recessed in Ceiling

COMBINATION NO. E-150-8

(With Hinged Concentric Louver)

Consists of:

- Permaflexor No. E-150.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Concentric Louver No. 1-B.

Standard Quantity—1

Weight, Approx. 10 lbs.

Retail Price, Each.....\$12.00

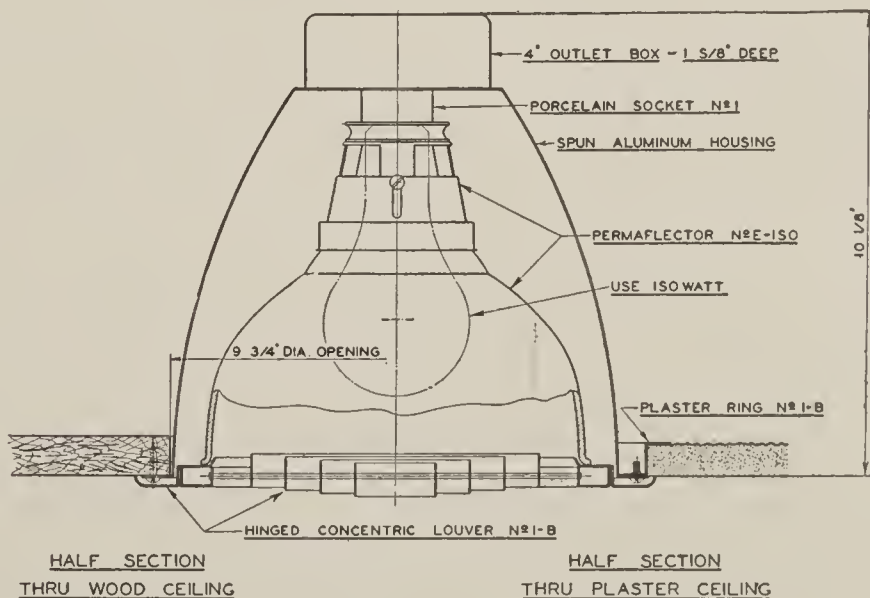
CodeONFIAT

Ceiling Space Required:

- Space Above Ceiling Line—10 1/8 inches.
- Opening to be Cut in Ceiling, Circular—Diam., 9 3/4 inches.

Additional Equipment—for use with No. E-150-8.

For Plaster Ceiling—Use Plaster Ring No. 1-B.

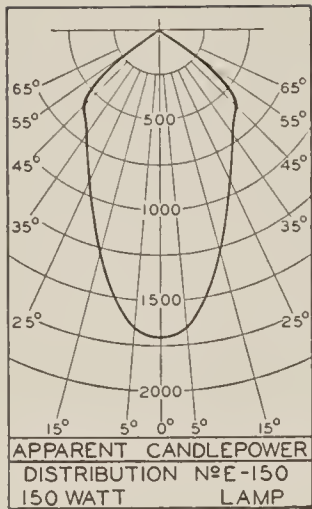


No. E-150-8 Recessed in Ceiling



PERMAFLECTOR NO. E-150 SERIES

FOR INDUSTRIAL LIGHTING



Description and Application

Permaflectors listed herewith are complete, highly efficient and serviceable Reflectors not requiring metal housings. The distribution of the three units shown on this page is identical. The units are broad distributing with a desirable concentration at the center of the beam. The units shown provide three different methods of support. They are quickly installed, ready for service by merely connecting, wiring and attaching to 1/2" conduit stem. Units provide engineered light control for general lighting of interior of industrial plants, airplane hangars, warehouses,

armories, power plants and the like. Where added protection and support is required, the N-type unit should be furnished.

Spacings on Centers:

For uniform illumination, should not exceed two-thirds height of bottom of reflector above work plane.

PERMAFLECTOR NO. E-150-B

Consists of:

Permaflector No. E-150-GO
Holder No. 35-B
Box No. KO-18—for attaching to 1/2 inch conduit stem
Socket No. 1

Lamp Size—150 watt PS-25

Height Overall—10 3/8 inches

Standard Quantity—7

Weight, Approx. 23 lbs.

Retail Price, each\$5.00

CodeONFIB

PERMAFLECTOR NO. E-150-N

Consists of:

Permaflector No. E-150-GO
Holder No. 35-N
Box No. KO-18—for attaching to 1/2 inch conduit stem
Socket No. 1
Spun Steel Retainer Ring
3—Steel Rod Supports

Lamp Size—150 watt PS-25

Height Overall—10 3/8 inches

Standard Quantity—1

Weight, Approx. 4 lbs.

Retail Price, each\$6.10

CodeONFIN

PERMAFLECTOR NO. E-150-RA

Consists of:

Permaflector No. E-150-GO
Adapter No. 1234-R Compressed
Socket No. 159 with cap for attaching to 1/2 inch conduit stem

Lamp Size—150 watt PS-25

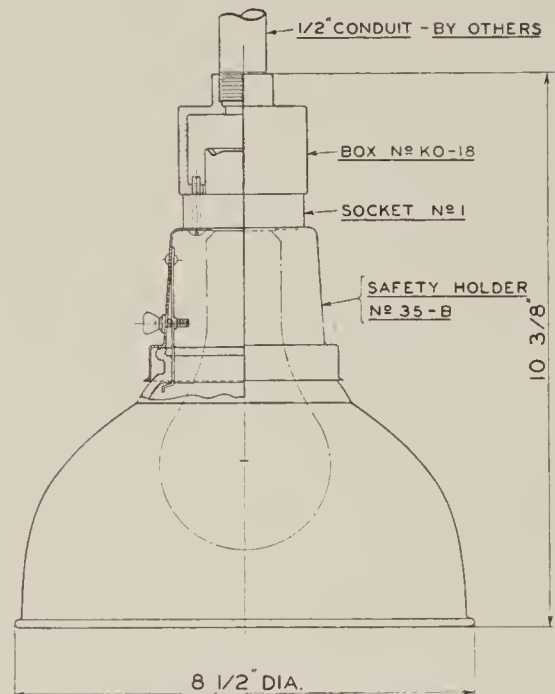
Height Overall—9 1/2 inches

Standard Quantity—7

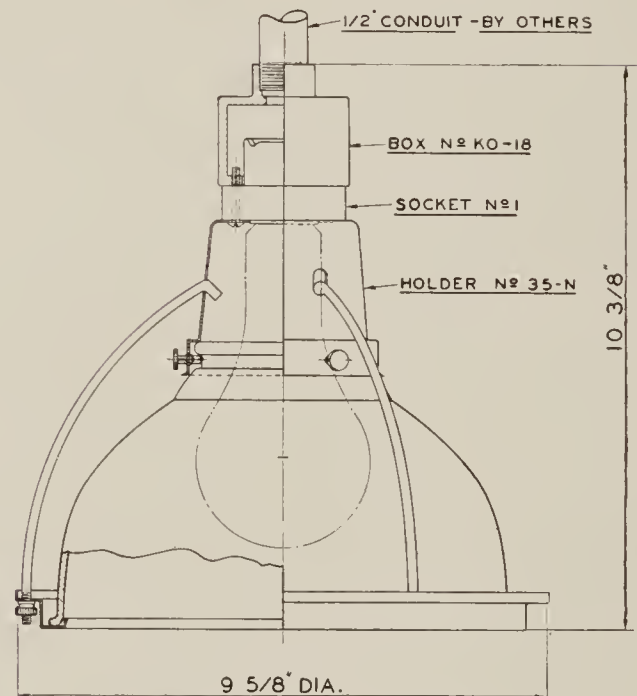
Weight, Approx. 16 lbs.

Retail Price, each\$3.85

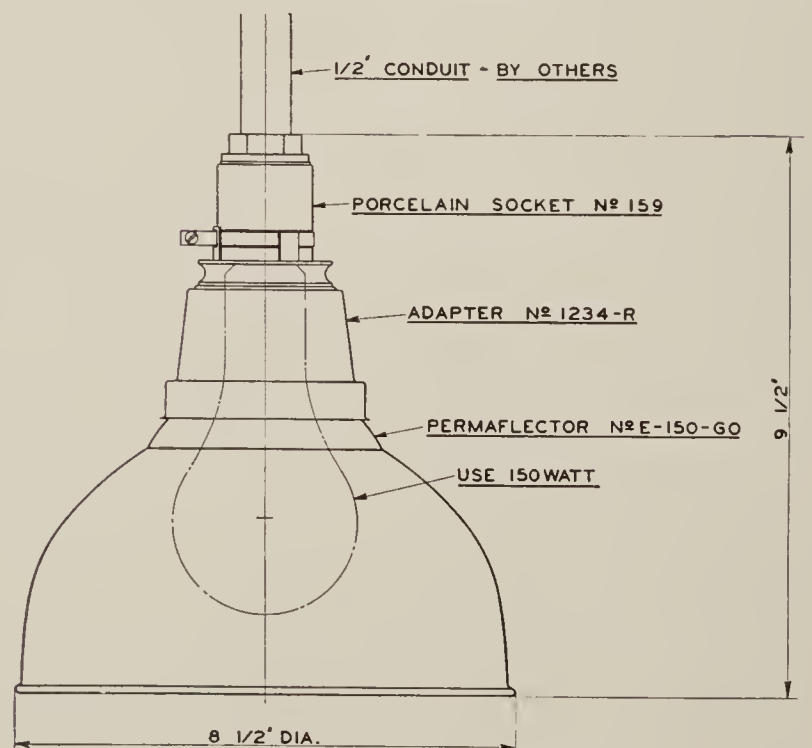
CodeONFIRA



Permaflector No. E-150-B



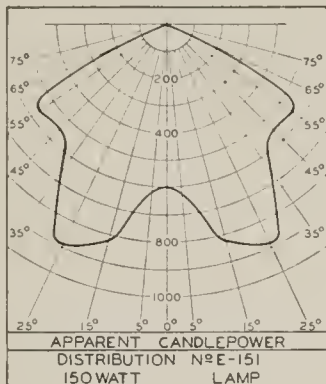
Permaflector No. E-150-N



Permaflector No. E-150-RA

PERMAFLECTOR NO. E-151 SERIES

FOR INDUSTRIAL LIGHTING



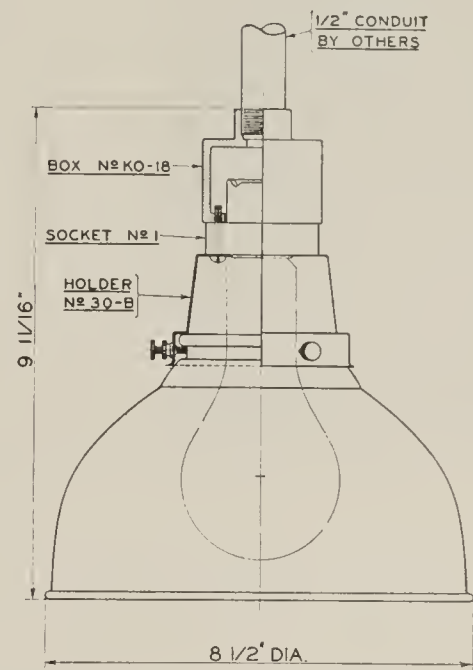
Description and Application

Permaflectors listed herewith are complete, highly efficient and serviceable Reflectors not requiring metal housings. The distribution of the three units shown on this page is identical. The units are broad distributing. The units shown provide three different methods of support. They are quickly installed, ready for service by merely connecting, wiring and attaching to 1/2" conduit stem. Units provide engineered

light control for general lighting of interior of industrial plants, airplane hangars, warehouses, armories, power plants and the like. Where added protection and support is required, the N-type unit should be furnished.

Spacings on Centers

For uniform illumination, should not exceed height of bottom of reflector above work plane.



Permaflector No. E-151-B

PERMAFLECTOR NO. E-151-B

Consists of:

Permaflector No. E-150-GO
Holder No. 30-B
Box No. KO-18—for attaching to 1/2 inch conduit stem
Socket No. 1

Lamp Size—150 watt PS-25

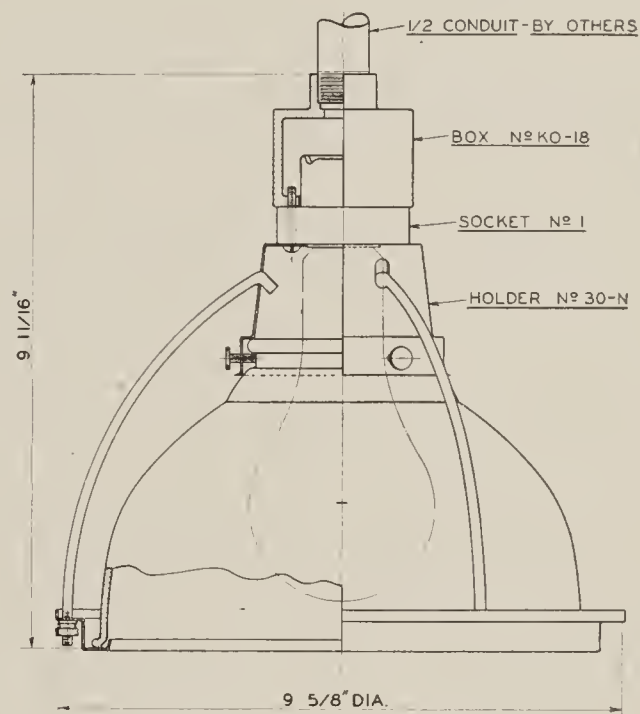
Height Overall—9 11/16 inches

Standard Quantity—7

Weight, Approx. 23 lbs.

Retail Price, each\$4.60

CodeONFIONE B



Permaflector No. E-151-N

PERMAFLECTOR NO. E-151-N

Consists of:

Permaflector No. E-150-GO
Holder No. 30-N
Box No. KO-18—for attaching to 1/2 inch conduit stem
Socket No. 1
Spun Steel Retainer Ring
3—Steel Rod Supports

Lamp Size—150 watt PS-25

Height Overall—9 11/16 inches

Standard Quantity—1

Weight, Approx. 4 lbs.

Retail Price, each\$5.70

CodeONFIONE

PERMAFLECTOR NO. E-151-RA

Consists of:

Permaflector No. E-150-GO
Holder No. 30-R
Socket No. 159 with cap for attaching to 1/2 inch conduit stem

Lamp Size—150 watt PS-25

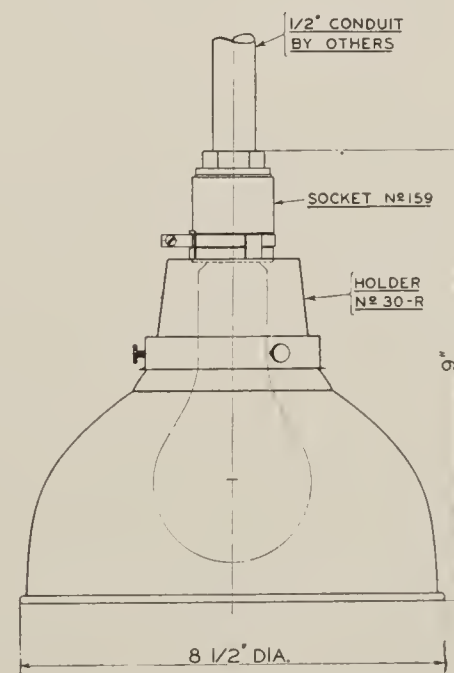
Height Overall—9 inches

Standard Quantity—7

Weight, Approx. 16 lbs.

Retail Price, each\$3.70

CodeONFIONRA

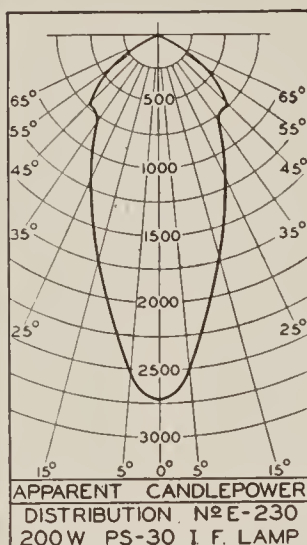


Permaflector No. E-151-RA

PERMAFLECTOR NO. E-230 SERIES



No. E-230



Application—A broadly distributing reflector with a desirable concentration at center. Excellent for recessed down lighting of stores and similar interiors, hand ball courts, gymnasiums, badminton courts, below mezzanine floors and other locations with low head room, recreation rooms in residences, entrance ways and marquees. Also good for exposed service in factories and warehouses.

Spacings on Centers:

For uniform illumination, should not exceed height of bottom of reflector above work plane.

Minimum Spacings: for

Mounting on Conduit No. 1—10½ inches on centers.

Mounting on Knockout Strip No. KO-1—12 inches on centers.

Dimensions:

Height with Adapter No. 1256 Extended—8⅞ inches.

Height with Adapter No. 1256 Compressed—7¾ inches.

Height Permaflector No. E-230-GO (Glass only) 6¼ inches.

Bottom Opening Circular—Diameter, 9½ inches.

Lamp Size:

300 watt PS-35, Medium Base, Adapter Extended.

200 watt PS-30, Adapter Extended.

150 watt PS-25, Adapter Compressed.

PERMAFLECTOR NO. E-230

Consists of:

Permaflector No. E-230-GO and Adapter No. 1256.

Standard Quantity—5

Weight, Approx. 14 lbs.

Retail Price, Each.....\$4.00

CodeETOR

Additional Equipment—for use with No. E-230.

May Be Installed With:

Outlet Box Cover Assembly No. B-1-3¼ or B-1-4.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1.

For Colored Lighting: Use

Color-Lite No. 2 or No. 2-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-54 for external mounting.

Concentric Louver No. EM-54-C for external mounting.

PERMAFLECTOR NO. E-230-R

Consists of:

Permaflector No. E-230-GO and Adapter No. 1256-R for use where grooved porcelain sockets are installed.

Standard Quantity—5

Weight, Approx. 14 lbs.

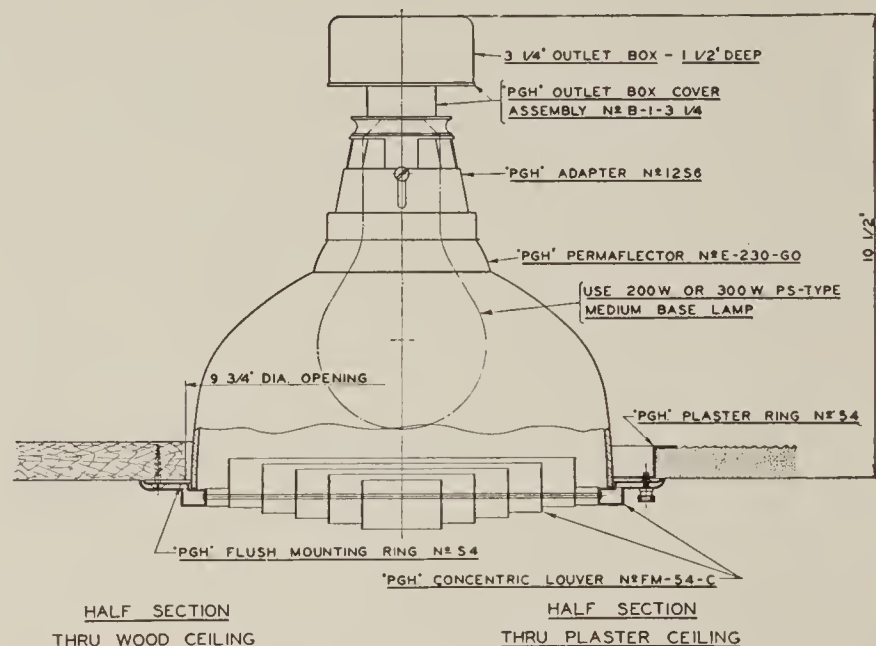
Retail Price, Each.....\$4.00

CodeETORER

Additional Equipment—for use with No. E-230-R.

For Colored Lighting—Same as for No. E-230.

For Louvered Lighting—Same as for No. E-230.



No. E-230-2, Recessed in Ceiling and Louvered

COMBINATION NO. E-230-2

(For Recessed Installation)

Consists of:

Permaflector No. E-230.

Outlet Box Cover Assembly No. B-1-3¼.

Flush Mounting Ring No. 54.

Standard Quantity—5

Weight, Approx. 17 lbs.

Retail Price, Each.....\$4.95

CodeETORT

Ceiling Space Required:

Space Above Ceiling Line—10½ inches (Adapter Extended)

Opening to be Cut in Ceiling, Circular—Diam., 9¾ inches.

Additional Equipment—for use with No. E-230-2.

For Plaster Ceiling—Use Plaster Ring No. 54.

For Colored Lighting—Use Color-Lite No. 21 or No. 21-DB.

For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 21 with or without Wire Guard No. WG-6.

For Louvered Lighting—Use

Parallel Louver No. FM-54.

Concentric Louver No. FM-54-C.

Egg Crate Louver No. FEC-200.

COMBINATION NO. E-230-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. E-230.

Outlet Box Cover Assembly No. B-1-3¼.

Hinged Ceiling Roundel No. 6-B.

Standard Quantity—5

Weight, Approx. 28 lbs.

Retail Price, Each.....\$9.05

CodeETORFO

Ceiling Space Required:

Space Above Ceiling Line—11 inches (Adapter Extended).

Opening to be Cut in Ceiling, Circular—Diam., 10¾ inches.

Additional Equipment—for use with No. E-230-4.

For Plaster Ceiling—Use Plaster Ring No. 6-B.

For Protection of Roundel—Use Wire Guard No. WG-6.

COMBINATION NO. E-230-5

(Hinged Concentric Louver Installation)

Consists of:

Permaflector No. E-230.

Outlet Box Cover Assembly No. B-1-3¼.

Hinged Concentric Louver No. 6-B.

Standard Quantity—5

Weight, Approx. 25 lbs.

Retail Price, Each.....\$8.70

CodeETORFI

Ceiling Space Required—Same as for No. E-230-4.

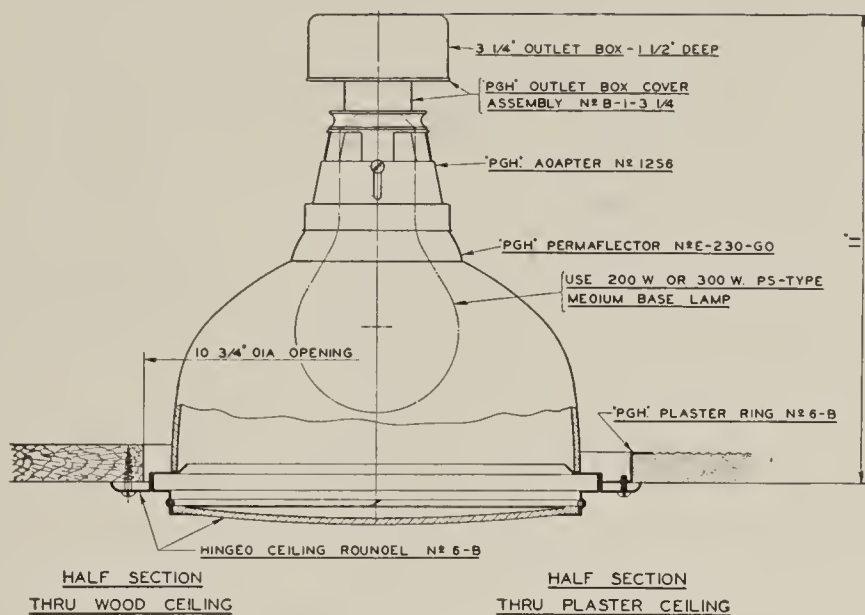
Additional Equipment—for use with No. E-230-5.

For Plaster Ceiling—Use Plaster Ring No. 6-B.

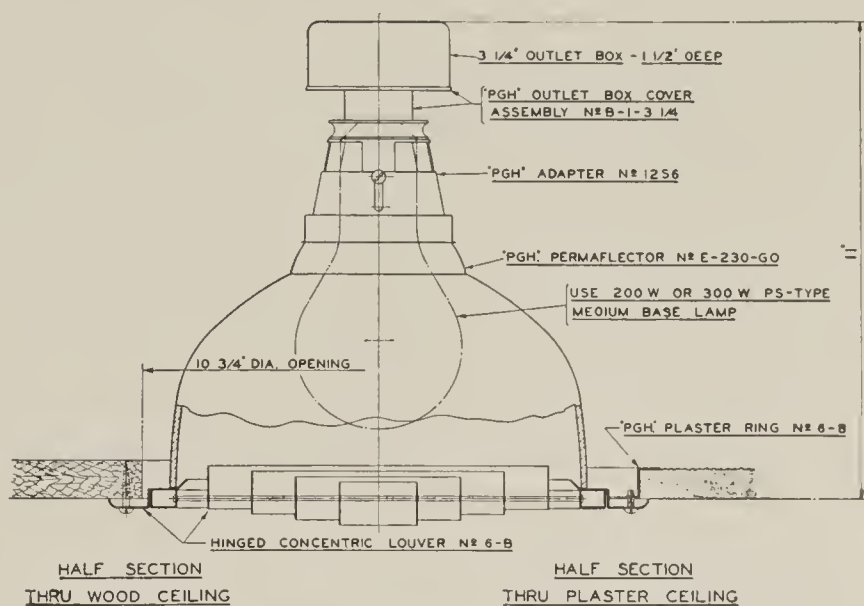


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. E-230 SERIES



No. E-230-4 Recessed in Ceiling



No. E-230-5 Recessed in Ceiling

ENCLOSED COMBINATIONS

(For Recessed Installations)

(Using 200 Watt PS-30 or 300 Watt PS-35 Medium Base Lamp)

Where mechanical protection of the recessed Permalector is necessary, the addition of a spun aluminum housing ac-

complishes the object. We list and illustrate below our line of fully enclosed units for Permalector No. E-230.

COMBINATION NO. E-230-7

(With Hinged Ceiling Roundel)

Consists of:

- Permalector No. E-230.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Ceiling Roundel No. 6-B.

Standard Quantity—1

Weight, Approx. 12 lbs.

Retail Price, Each.....\$15.60

CodeETORSET

Ceiling Space Required:

- Space Above Ceiling Line—11 1/8 inches.
- Opening to be Cut in Ceiling, Circular—Diam., 10 3/4 inches.

Additional Equipment—for use with No. E-230-7.

For Plaster Ceiling—Use Plaster Ring No. 6-B.

For Protection of Roundel—Use Wire Guard No. WG-6.

COMBINATION NO. E-230-8

(With Hinged Concentric Louver)

Consists of:

- Permalector No. E-230.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Concentric Louver No. 6-B.

Standard Quantity—1

Weight, Approx. 11 lbs.

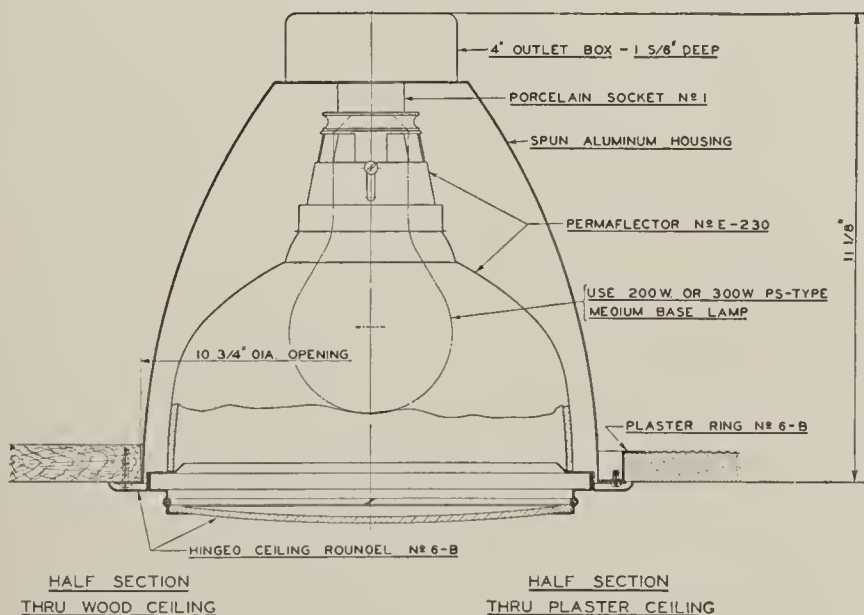
Retail Price, Each.....\$15.25

CodeETORAT

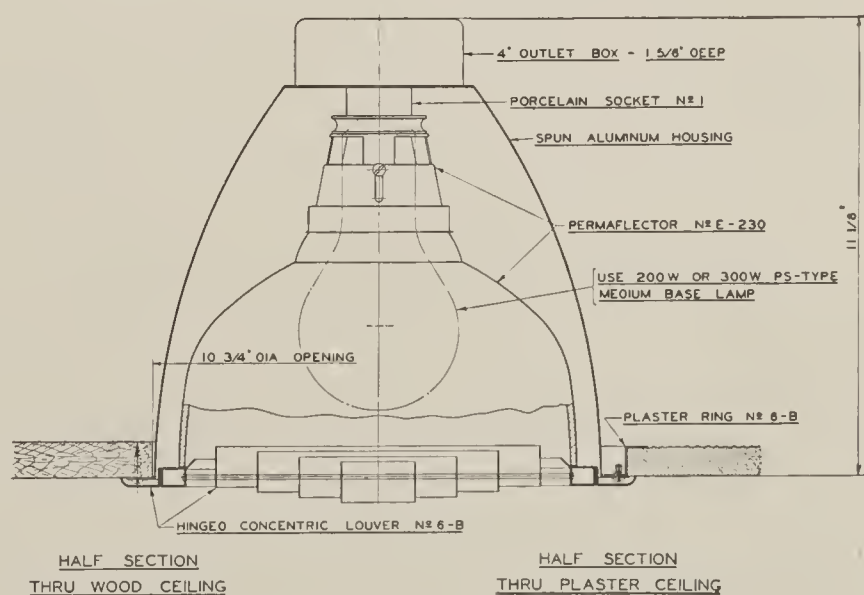
Ceiling Space Required—Same as for No. E-230-7.

Additional Equipment—for use with No. E-230-8.

For Plaster Ceiling—Use Plaster Ring No. 6-B.



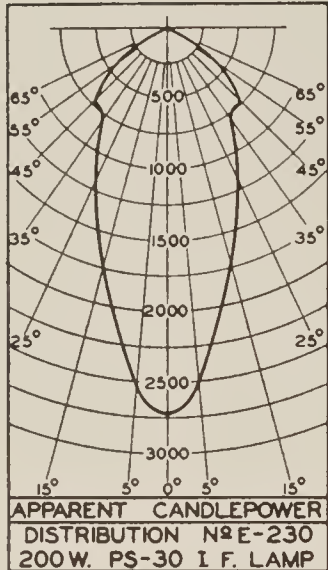
No. E-230-7 Recessed in Ceiling



No. E-230-8 Recessed in Ceiling

PERMAFLECTOR NO. E-230 SERIES

FOR INDUSTRIAL LIGHTING



Description and Application

Permaflectors listed herewith are complete, highly efficient and serviceable Reflectors not requiring metal housings. The distribution of the three units shown on this page is identical. The units are broad distributing with a desirable concentration at the center of the beam. The units shown provide three different methods of support. They are quickly installed, ready for service by merely connecting, wiring and attaching to 1/2" conduit stem. Units provide engineered light control for general lighting of interior of industrial plants, airplane hangars, warehouses,

armories, power plants and the like. Where added protection and support is required, the N-type unit should be furnished.

Spacings on Centers

For uniform illumination, should not exceed two-thirds height of bottom of reflector above work plane.

PERMAFLECTOR NO. E-230-B

Consists of:

Permaflector No. E-230-GO
Holder No. 35-B
Box No. KO-18—for attaching to 1/2 inch conduit stem
Socket No. 1

Lamp Size—200 watt PS-30
300 watt PS-35 Medium Base

Height Overall—11 3/8 inches

Standard Quantity—5

Retail Price, each\$5.50

CodeETORB

Weight, Approx. 20 lbs.

PERMAFLECTOR NO. E-230-N

Consists of:

Permaflector No. E-230-GO
Holder No. 35-N
Box No. KO-18—for attaching to 1/2 inch conduit stem
Socket No. 1
Spun Steel Retainer Ring
3—Steel Rod Supports

Lamp Size—200 watt PS-30
300 watt PS-35 Medium Base

Height Overall—11 3/8 inches

Standard Quantity—1

Retail Price, each\$6.60

CodeETORN

Weight, Approx. 4 lbs.

PERMAFLECTOR NO. E-230-RA

Consists of:

Permaflector No. E-230-GO
Adapter No. 1234-R Compressed
Socket No. 159 with cap for attaching to 1/2 inch conduit stem

Lamp Size—200 watt PS-30
300 watt PS-35 Medium Base

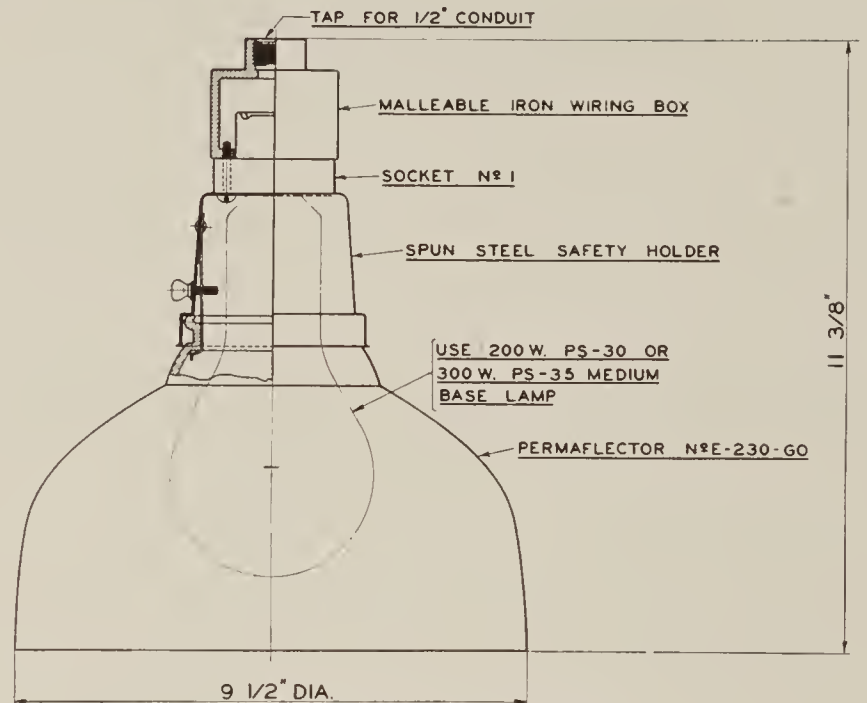
Height Overall—10 1/2 inches

Standard Quantity—5

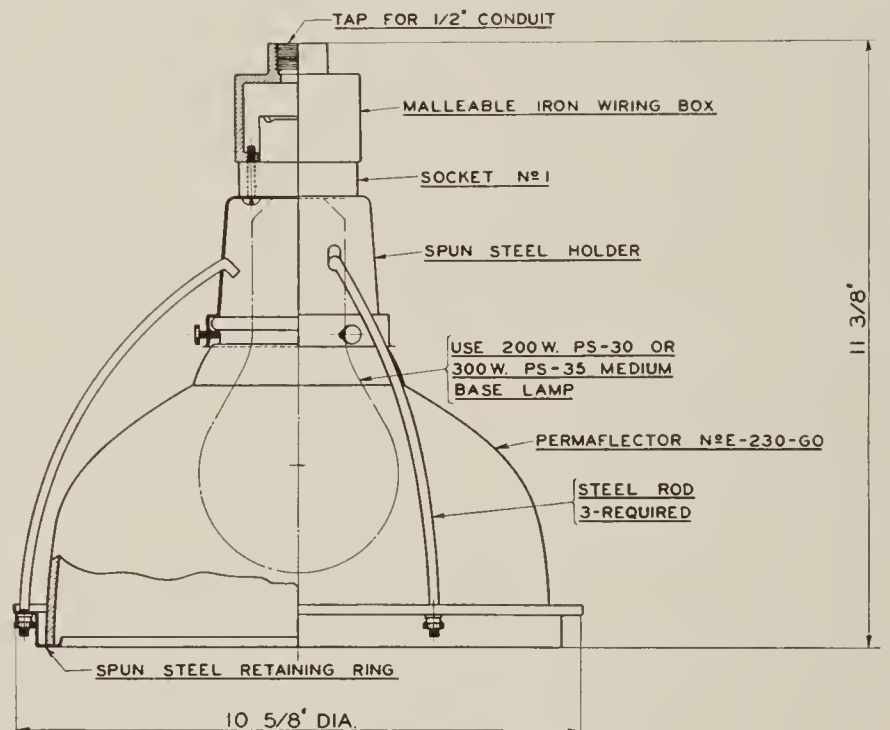
Retail Price, each\$4.33

CodeETORA

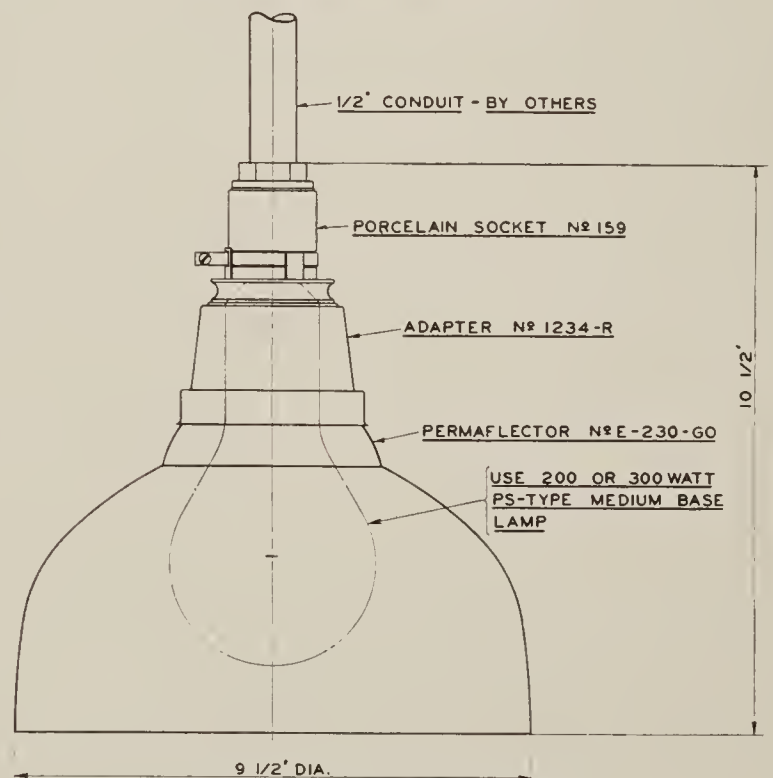
Weight, Approx. 14 lbs.



Permaflector No. E-230-B



Permaflector No. E-230-N



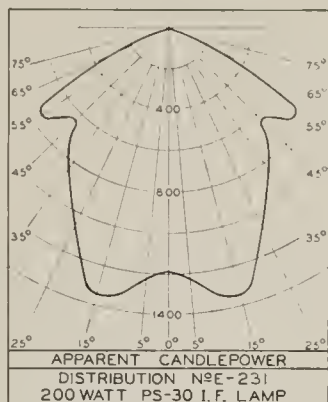
Permaflector No. E-230-RA



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. E-231 SERIES

FOR INDUSTRIAL LIGHTING



Description and Application

Permaflectors listed herewith are complete, highly efficient and serviceable Reflectors not requiring metal housings. The distribution of the three units shown on this page is identical. The units are broad distributing. The units shown provide three different methods of support. They are quickly installed, ready for service by merely connecting, wiring and attaching to 1/2" conduit stem. Units provide engineered light control for general lighting

of interior of industrial plants, airplane hangars, warehouses, armories, power plants and the like. Where added protection and support is required, the N-type unit should be furnished.

Spacings on Centers

For uniform illumination, should not exceed height of bottom of reflector above work plane.

PERMAFLECTOR NO. E-231-B

Consists of:

Permaflector No. E-230-GO
Holder No. 30-B
Box No. KO-18—for attaching to 1/2 inch conduit stem
Socket No. 1

Lamp Size—200 watt PS-30
300 watt PS-35 Medium Base

Height Overall—10 11/16 inches

Standard Quantity—5

Weight, Approx. 20 lbs.

Retail Price, each\$5.10

CodeETOROB

PERMAFLECTOR NO. E-231-N

Consists of:

Permaflector No. E-230-GO
Holder No. 30-N
Box No. KO-18—for attaching to 1/2 inch conduit stem
Socket No. 1
Spun Steel Retainer Ring
3—Steel Rod Supports

Lamp Size—200 watt PS-30
300 watt PS-35 Medium Base

Height Overall—10 11/16 inches

Standard Quantity—1

Weight, Approx. 4 lbs.

Retail Price, each\$6.20

CodeETORON

PERMAFLECTOR NO. E-231-RA

Consists of:

Permaflector No. E-230-GO
Holder No. 30-R
Socket No. 159 with cap for attaching to 1/2 inch conduit stem

Lamp Size—200 watt PS-30
300 watt PS-35 Medium Base

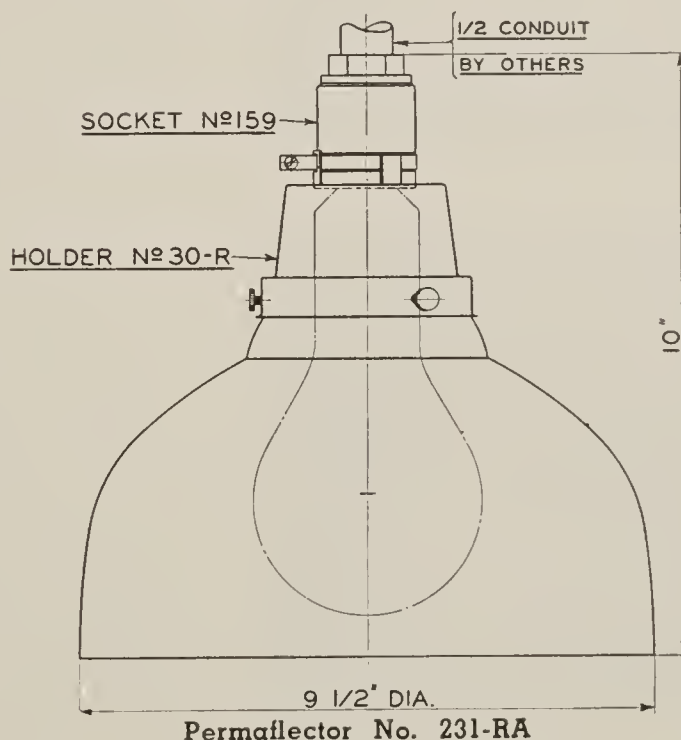
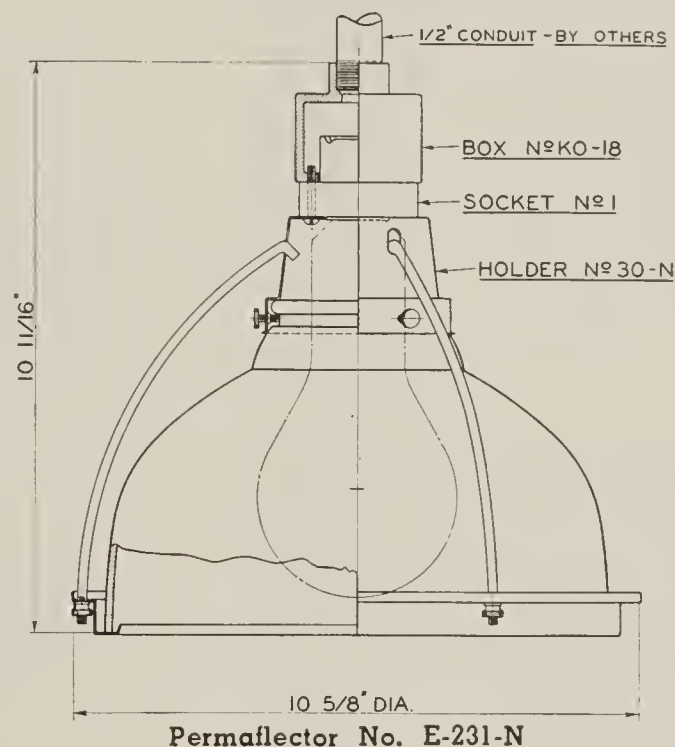
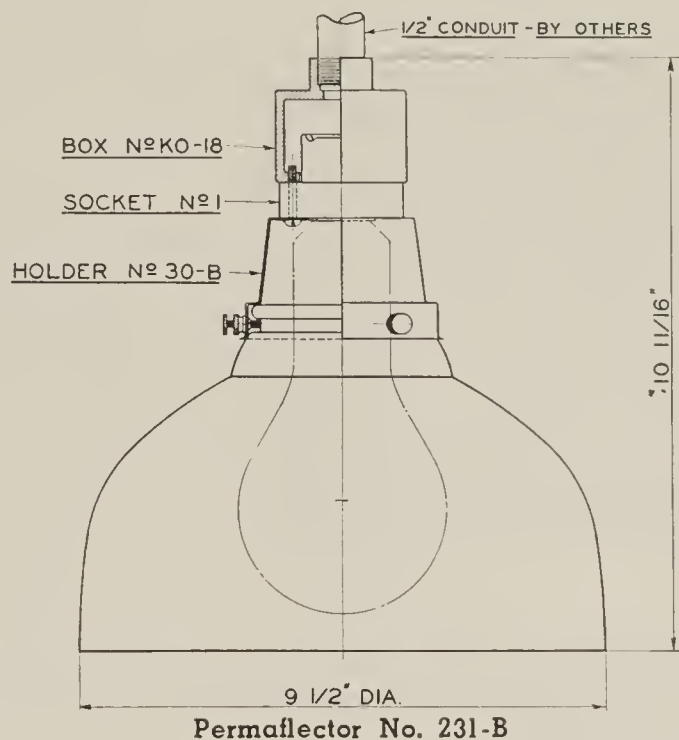
Height Overall—10 inches

Standard Quantity—5

Weight, Approx. 14 lbs.

Retail Price, each\$4.20

CodeETORORA



PERMAFLECTOR NO. E-230 SERIES

To provide a metallic protective enclosure for Permaflexor No. E-230, there is available this series of units for interiors such as industrial plants, power houses, gymnasiums, auto repair shops and similar interiors where reflector enclosure

seems desirable. These units are available as listed below.

Spacings on Centers:

For uniform illumination, should not exceed height of bottom of reflector above work plane.



No. E-230-S

PERMAFLECTOR NO. E-230-S

(Sprayed and Baked Aluminum Finish)

Consists of:

Permaflexor No. E-230-GO.

Spun Aluminum Housing.

Removable Reflector Retaining Ring.

4-Clips.

Medium Base Porcelain Socket with female cap—for attaching to any standard 1/2 inch Conduit Hanger.

Lamp Size: 300 watt PS-35 or 200 watt PS-30 Medium Base.

Standard Quantity—1

Weight, Approx. 7 lbs.

Retail Price, Each.....\$11.25

Code:ETUTORES

PERMAFLECTOR NO. E-230-L

Same as Permaflexor No. E-230-S except equipped with removable Concentric Louver No. RV-230-S for concealment of light source, when required.

Standard Quantity—1

Weight, Approx. 8 lbs.

Retail Price, Each.....\$12.40

CodeETUTOREL

PERMAFLECTOR NO. E-230-G

Same as Permaflexor No. E-230-S except equipped with Hinged Wire Guard No. WG-31 for use where protection of lamp and Permaflexor is required, as in gymnasiums, indoor tennis courts, etc.

Standard Quantity—1

Weight, Approx. 7 lbs.

Retail Price, Each.....\$13.05

CodeETUTORG

PERMAFLECTOR NO. E-230-LG

Same as Permaflexor No. E-230-S except equipped with removable Concentric Louver No. RV-230-S and Hinged Wire Guard No. WG-31.

Standard Quantity—1

Weight, Approx. 8 lbs.

Retail Price, Each.....\$14.20

CodeETUTOLG

PERMAFLECTOR HANGER NO. H-2

(For use with Housed E-230, E-500, I-505 and I-1005 Series)

Consists of:

Canopy No. B-444.

Swivel.

3 1/2" O.D. Tubing, 6 inches long.

1/2" to 3/8" Reducing Bushing.

Standard Quantity—1

Weight, Approx. 3 lbs.

Retail Price, Each.....\$3.00

For each additional inch longer than standard length add 5c.

CodeACHTU

HIGH BAY UNITS FOR MERCURY LAMPS

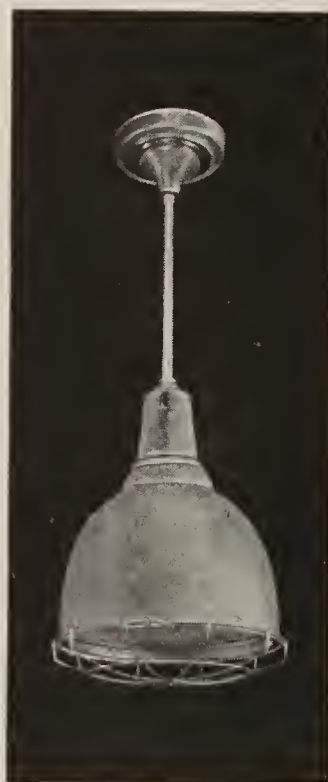
Mercury Vapor Lamps are often used in industrial high-bay lighting because of their high lumens-per-watt output. Permaflexors I-505, E-500 and E-530 Series, in which 400-watt Mercury Lamps may be installed, are ideal for industrial applications. Refer to the index for their page numbers.



No. E-230-G



No. E-230-LG



No. E-500-G with Hanger No. H-2, Wire-Guard Closed



No. E-500-G with Hanger No. H-2, Wire-Guard Open



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. E-500 SERIES

FOR INDUSTRIAL LIGHTING
(Sprayed and Baked Aluminum Finish)

To provide a metallic protective enclosure for Permaflector No. E-500, there is available this series of units for interiors such as industrial high bays, power houses, gymnasiums and similar interiors where reflector enclosure seems desirable.

These units are available as listed below.

Spacings on Centers:

For uniform illumination, should not exceed height of bottom of reflector above work plane.

PERMAFLECTOR NO. E-500-S



No. E-500-S

Consists of:

Permaflector
No. E-500-GO
Spun Aluminum
Housing.
Removable Reflector
Seating Ring.
Ventilated Porcelain
Mogul Socket with
female cap — for
attaching to any
standard 1/2 inch
Conduit Hanger.
Also available for 3/4" conduit stem.

Lamp Size—500 watt
PS-40 or 300 watt
PS-35.

Standard Quantity—1

Retail Price, each

Code

Weight, Approx. 14 lbs.

\$14.50

EFIHUNDES

PERMAFLECTOR NO. E-500-L



No. E-500-L

Same as Permaflector No. E-500-S except equipped with removable Concentric Louver No. RV-500-S for concealment of light source, when required.

Standard Quantity—1

Retail Price, each

Code

Weight, Approx. 15 lbs.

\$15.95

EFIHUNDEL

PERMAFLECTOR NO. E-500-G



No. E-500-G

Same as Permaflector No. E-500-S except equipped with Hinged Wire Guard No. WG-32 for use where protection of lamp and Permaflector is required, as in gymnasiums, indoor tennis courts, etc.

Standard Quantity—1

Weight, Approx. 15 lbs.

Retail Price,

each \$16.50

Code EFIHUNGE

PERMAFLECTOR NO. E-500-LG



No. E-500-LG

Same as Permaflector No. E-500-S except equipped with removable Concentric Louver No. RV-500-S and Hinged Wire Guard No. WG-32.

Standard Quantity—1

Weight, Approx. 16 lbs.

Retail Price,

each \$17.95

Code EFIHUNDELG

PERMAFLECTOR NO. E-500-N

To provide extra support and protection for the Permaflector without the use of a complete housing, we offer this Permaflector incorporating the retaining ring arrangement. This unit is quickly installed, ready for service, by merely connecting wiring and attaching to a conduit stem.

Consists of:

Permaflector No. E-500-GO
Mogul Socket No. 4
Safety Holder No. M-3-N
3—Steel Straps
Spun Steel Retaining Ring
Box No. KO-19-1/2—for attaching to 1/2" conduit stem.
KO-19-3/4 available for attaching to 3/4" conduit stem.
Lamp Size—500 watt PS-40 or 300 watt PS-35

Height Overall—14 1/2 inches

Standard Quantity—1

Weight, Approx. 11 lbs.

Retail Price, each

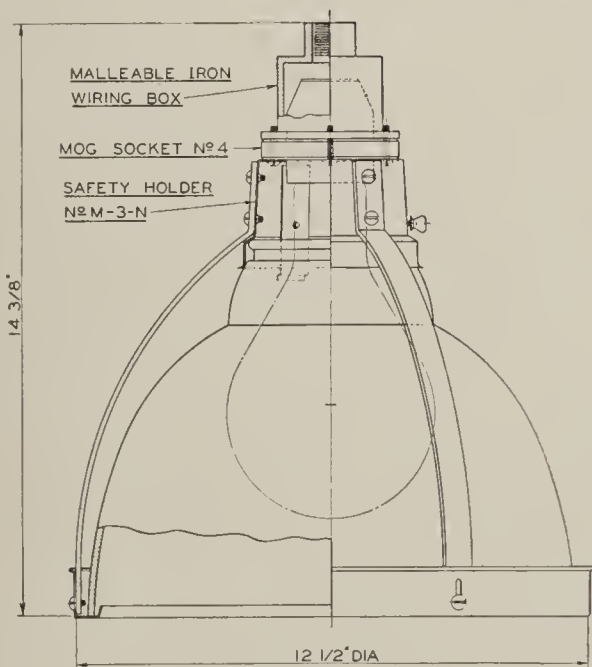
\$12.30

Code

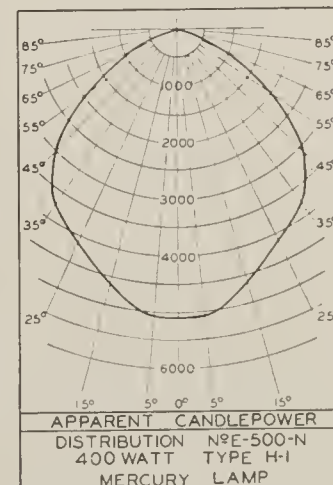
EFIHUNEN

MERCURY LAMP INSTALLATIONS

Permaflector No. E-500 Series may be installed with 400 watt (Type H-1) Mercury Lamps by using a special auxiliary ballast for each lamp. This ballast (one for each 400 watt lamp) may be mounted near lamp, or grouped in one or more banks located some distance away. These ballasts are not supplied but are available from any electrical wholesaler.



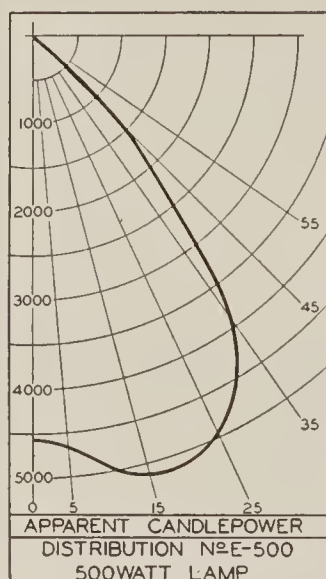
No. E-500-N



PERMAFLECTOR NO. E-500 SERIES



No. E-500



Application—A reflector of wide utility. It is used exposed or enclosed in metallic housing for industrial and public space illumination. It is recessed in the ceiling with flush mounting ring and concentric louver or hinged ceiling roundel. Excellent for use above skylights. A good reflector to be incorporated in lantern fixtures.

Spacings on Center:

For uniform illumination, should not exceed height of bottom of reflector above work plane.

Lamp Size: 500 Watt PS-40 or 300 Watt PS-35.

Dimensions:

Height Permaflector No. E-500-GO—9 $\frac{1}{8}$ inches.
Bottom Opening Circular—Diameter, 11 $\frac{7}{8}$ inches.

PERMAFLECTOR NO. E-500

Consists of:

Permaflector No. E-500-GO.
Outlet Box Cover Assembly No. B-3.
Holder No. M-3.

Attaches to any standard 4" Outlet Box, 1 $\frac{1}{8}$ inches deep.

Standard Quantity—1 **Weight, Approx.** 8 lbs.

Retail Price, Each:

Permaflector No. E-500\$8.70
Permaflector No. E-500-GO (Glass Only).....\$6.85

Code:

Permaflector No. E-500.....**EFIHUNDER**
Permaflector No. E-500-GO.....**EFIHUGLA**

Additional Equipment—for use with No. E-500.

May Be Mounted On:

Conduit No. 6 in which case discard Outlet Box Cover.

For Louvered Lighting: Use

Parallel Louver No. EME-500 for external mounting.
Concentric Louver No. EME-500-C for external mounting.

PERMAFLECTOR NO. E-500-B

Consists of:

Permaflector No. E-500-GO.
Porcelain Mogul Socket No. 4.
Holder No. M-3.
Box No. KO-19 $\frac{1}{2}$ —for attaching to $\frac{1}{2}$ " conduit stem.
(KO-19 $\frac{3}{4}$ —available for attaching to $\frac{3}{4}$ " conduit stem.)

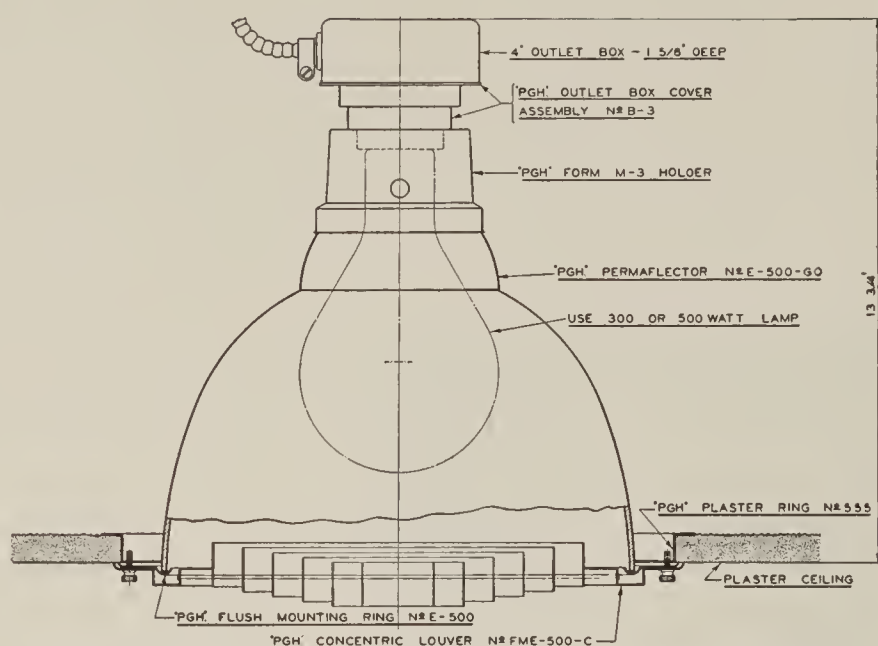
Standard Quantity—1 **Weight, Approx.** 9 lbs.

Retail Price, Each.....\$8.70

Code**EFIVHUNBI**

Additional Equipment—for use with No. E-500-B

For Louvered Lighting—Same as for No. E-500.



No. E-500-2 Recessed in Plaster Ceiling and Louvered

COMBINATION NO. E-500-2

(For Recessed Installation)

Consists of:

Permaflector No. E-500.
Flush Mounting Ring No. E-500.

Standard Quantity—1

Weight, Approx. 8 lbs.

Retail Price, Each.....\$9.85

Code**EFUNTU**

Ceiling Space Required:

Space Above Ceiling Line—13 $\frac{3}{4}$ inches.
Opening to be Cut in Ceiling, Circular—Diam., 12 $\frac{1}{4}$ inches.

Additional Equipment—for use with No. E-500-2.

For Plaster Ceiling—Use Plaster Ring No. 555.

For Colored Lighting—Use Color-Lite No. 81.

For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 81 with or without Wire Guard No. WG-2.

For Louvered Lighting: Use

Parallel Louver No. FME-500.

Concentric Louver No. FME-500-C.

Egg Crate Louver No. FEC-300.

COMBINATION NO. E-500-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. E-500
Hinged Ceiling Roundel No. 2-B.

Standard Quantity—1

Weight, Approx. 13 lbs.

Retail Price, Each.....\$17.20

Code**EFUNFO**

Ceiling Space Required:

Space Above Ceiling Line—14 inches.
Opening to be Cut in Ceiling, Circular—Diam., 13 $\frac{3}{8}$ inches.

Additional Equipment—for use with No. E-500-4.

For Plaster Ceiling—Use Plaster Ring No. 2-B.

For Protection of Roundel—Use Wire Guard No. WG-2.

COMBINATION NO. E-500-5

(Hinged Concentric Louver Installation)

Consists of:

Permaflector No. E-500.
Hinged Concentric Louver No. 2-B.

Standard Quantity—1

Weight, Approx. 11 lbs.

Retail Price, Each.....\$14.20

Code**EFUNFI**

Ceiling Space Required:

Space Above Ceiling Line—14 inches.
Opening to be Cut in Ceiling, Circular—Diam., 13 $\frac{3}{8}$ inches.

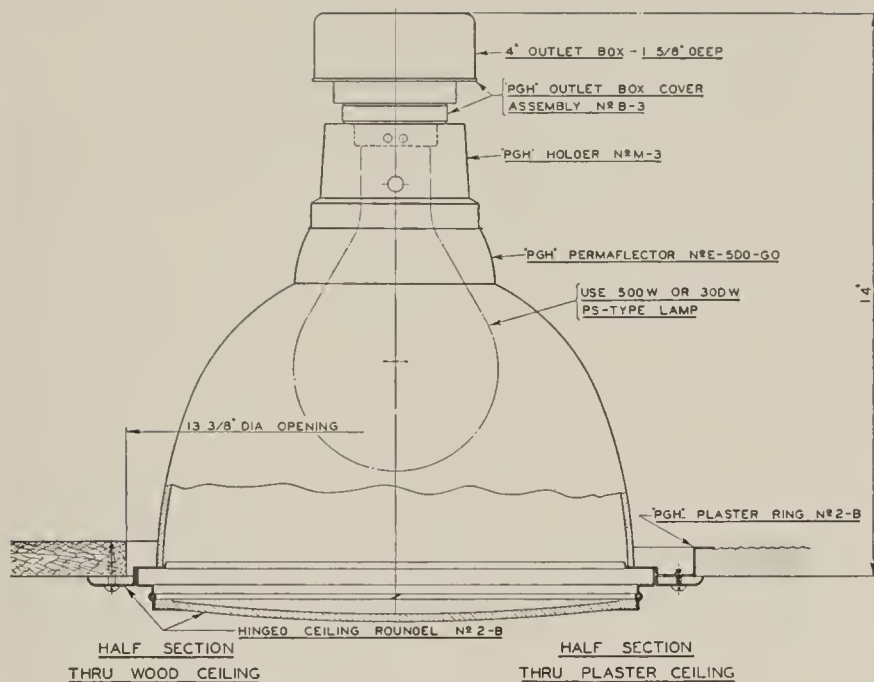
Additional Equipment—for use with No. E-500-5.

For Plaster Ceiling—Use Plaster Ring No. 2-B.

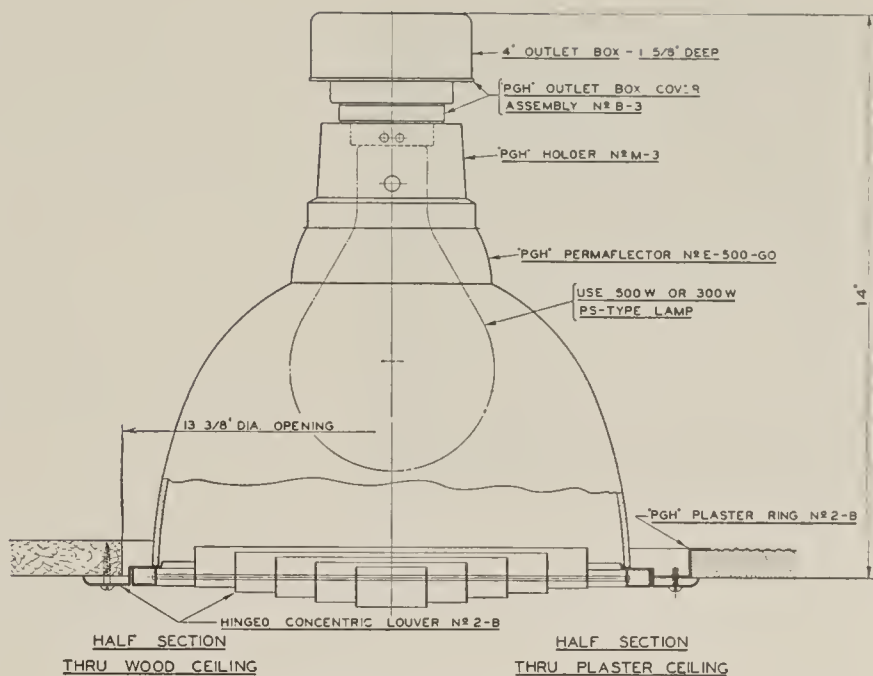


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. E-500 SERIES



No. E-500-4 Recessed in Ceiling



No. E-500-5 Recessed in Ceiling

ENCLOSED COMBINATIONS

(For Recessed Installations)

(Using 500 or 300 Watt PS-Type Lamp)

Where mechanical protection of the recessed Permaflexor is necessary, the addition of a spun aluminum housing ac-

complishes the object. We list and illustrate below our line of fully enclosed units for Permaflexor No. E-500.

COMBINATION NO. E-500-7

(With Hinged Ceiling Roundel)

Consists of:

- Permaflexor No. E-500-GO.
- Porcelain Mogul Socket No. 4.
- Holder.
- Spun Aluminum Housing.
- 4\"/>

Standard Quantity—1

Weight, Approx. 20 lbs.

Retail Price, Each.....\$25.00

CodeEFUNSET

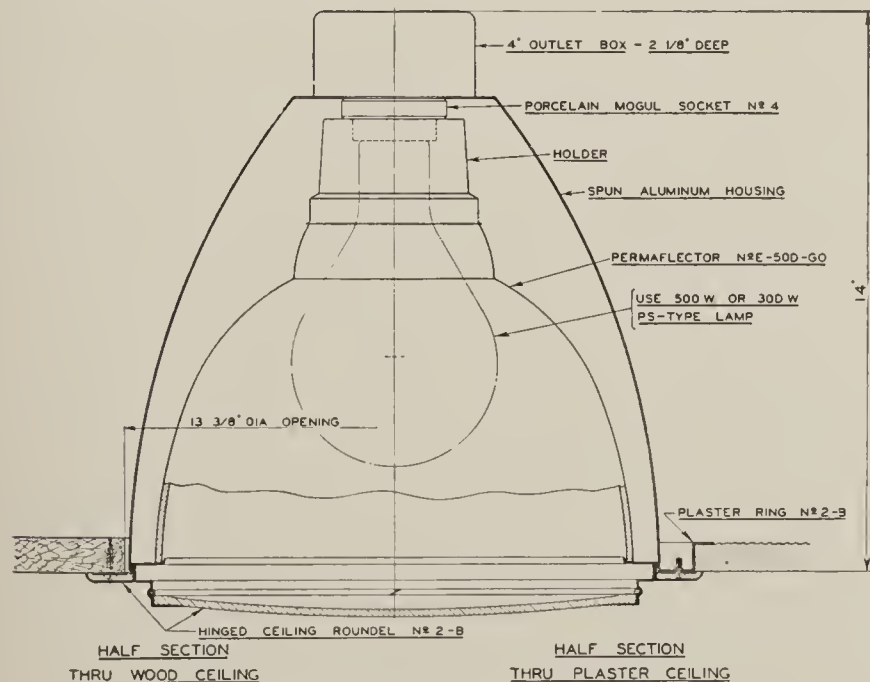
Ceiling Space Required:

- Space Above Ceiling Line—14 inches.
- Opening to be Cut in Ceiling, Circular—Diam., 13³/₈ inches.

Additional Equipment—for use with No. E-500-7.

For Plaster Ceiling—Use Plaster Ring No. 2-B.

For Protection of Roundel—Use Wire Guard No. WG-2.



No. E-500-7 Recessed in Ceiling

COMBINATION NO. E-500-8

(With Hinged Ceiling Concentric Louver)

Consists of:

- Permaflexor No. E-500-GO.
- Porcelain Mogul Socket No. 4.
- Holder.
- Spun Aluminum Housing.
- 4\"/>

Standard Quantity—1

Weight, Approx. 18 lbs.

Retail Price, Each.....\$22.00

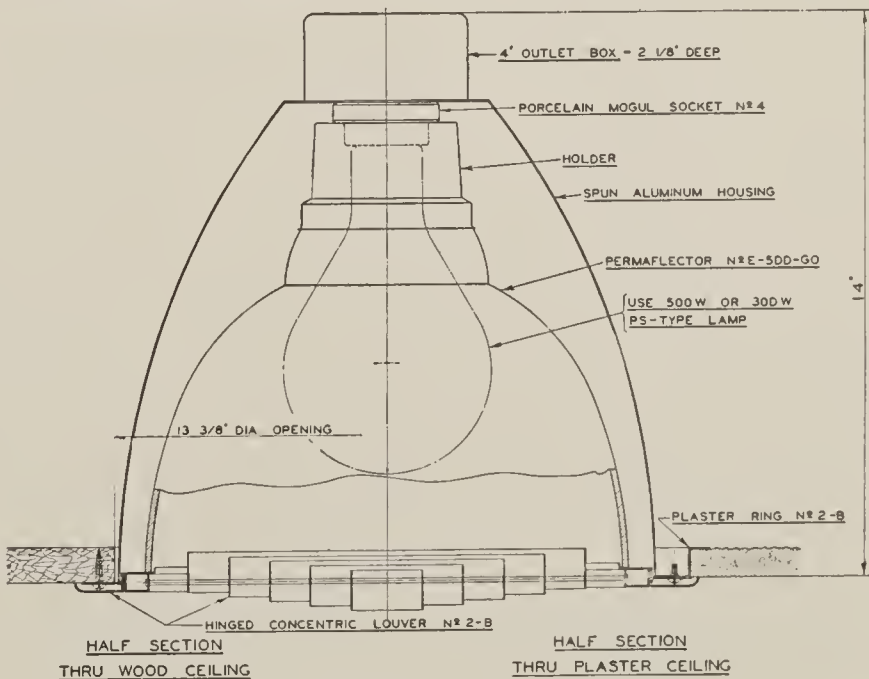
CodeEFUNAT

Ceiling Space Required:

- Space Above Ceiling Line—14 inches.
- Opening to be Cut in Ceiling, Circular—Diam., 13³/₈ inches.

Additional Equipment—for use with No. E-500-8.

For Plaster Ceiling—Use Plaster Ring No. 2-B.



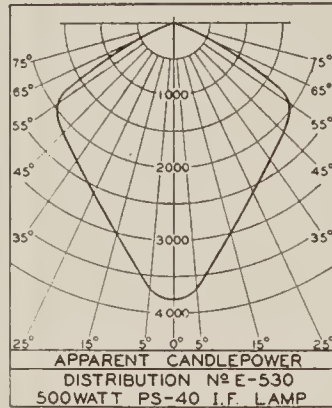
No. E-500-8 Recessed in Ceiling



PERMAFLECTOR NO. E-530 SERIES



No. E-530



APPARENT CANDLEPOWER
DISTRIBUTION No E-530
500WATT PS-40 I.F. LAMP

Application—A broadly distributing reflector with a desirable concentration at centers. Excellent for recessed down lighting of stores and similar interiors, hand ball courts, gymnasiums, etc.

Spacings on Centers:

For uniform illumination, should not exceed height of bottom of reflector above work plane.

Lamp Size: 500 Watt PS-40 or 300 Watt PS-35.

Dimensions:

Height Permaflex No. E-530-GO—9 inches.

Bottom Opening Circular—Diameter 13 1/2 inches.

PERMAFLECTOR NO. E-530

Consists of:

Permaflex No. E-530-GO.

Outlet Box Cover Assembly No. B-3.

Holder No. M-3.

Attaches to any standard 4" Outlet Box, 1 5/8 inches deep.

Standard Quantity—1

Weight, Approx. 8 lbs.

Retail Price, Each:

Permaflex No. E-530\$9.75

Permaflex No. E-500-GO (Glass Only).....\$7.90

Code: Permaflex No. E-530

EFITE

Permaflex No. E-530-GO

EFIGO

Additional Equipment—for use with No. E-530.

May Be Mounted On:

Conduit No. 6, in which case discard outlet box cover.

For Colored Lighting: Use

Color-Lite No. 8 for external mounting.

PERMAFLECTOR NO. E-530-B

Consists of:

Permaflex No. E-530-GO.

Porcelain Mogul Socket No. 4.

Holder No. M-3.

Box No. KO-19 1/2—for attaching to 1/2 inch conduit stem.

(KO-19 3/4—available for attaching to 3/4" conduit stem.)

Standard Quantity—1

Weight, Approx. 9 lbs.

Retail Price, Each

\$9.75

Code

EFIB

Additional Equipment—for use with No. E-530-B.

For Colored Lighting—Same as for No. E-530.

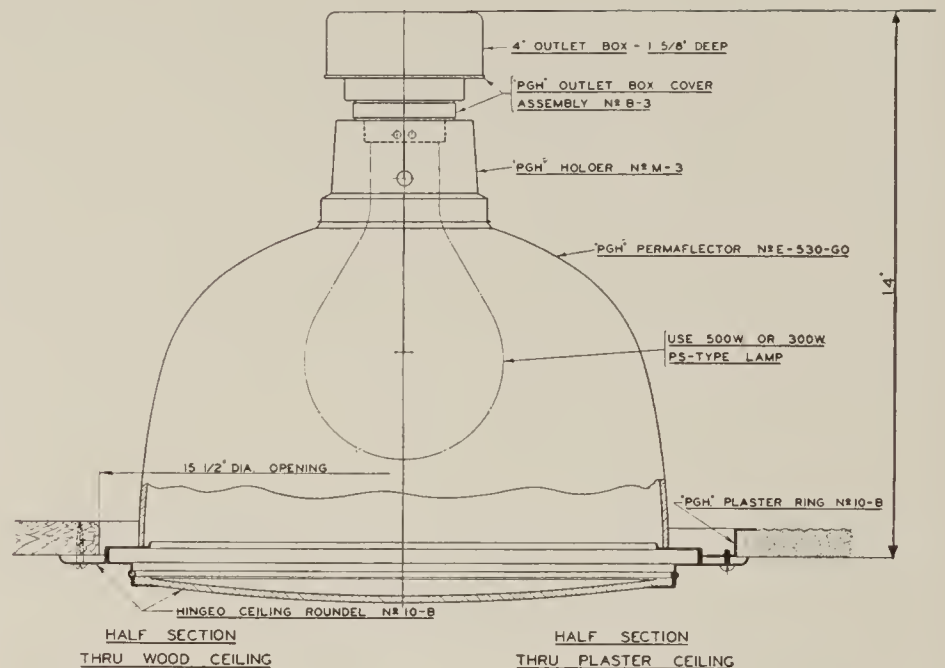
THREE-LIGHT EQUIPMENT

The substitution of Three-Light Mogul Socket No. 5 for Standard Mogul Socket No. 4, converts the following items for use with:

200-300-500 Watt PS-40, Three-Light Lamp or

150-200-350 Watt PS-35, Three-Light Lamp.

Catalog No.	Std. Quan.	Retail Price Each	Code
Permaflex No. E-530, 3-Light	1	\$10.00	EFITRE
Permaflex No. E-530-B, 3-Light	1	10.00	EFIBRE
Combination No. E-530-2, 3-Light	1	11.50	EFITURE
Combination No. E-530-4, 3-Light	1	21.00	EFIFORE
Combination No. E-530-5, 3-Light	1	17.00	EFIFRE



E-530-4 Recessed in Ceiling

COMBINATION NO. E-530-2

(For Recessed Installation)

Consists of:

Permaflex No. E-530.

Flush Mounting Ring No. C-500.

Standard Quantity—1

Weight, Approx. 10 lbs.

Retail Price, Each

\$11.25

Code

EFITU

Ceiling Space Required:

Space Above Ceiling Line—13 1/2 inches.

Opening to be Cut in Ceiling, Circular—Diam., 13 3/4 inches.

Additional Equipment—for use with No. E-530-2.

For Plaster Ceiling—Use Plaster Ring No. C-500.

For Louvered Lighting—Use

Concentric Louver No. FMC-500-C.

COMBINATION NO. E-530-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflex No. E-530.

Hinged Ceiling Roundel No. 10-B.

Standard Quantity—1

Weight, Approx. 14 lbs.

Retail Price, Each

\$20.75

Code

EFIFO

Ceiling Space Required:

Space Above Ceiling Line—14 inches.

Opening to be Cut in Ceiling, Circular—Diam., 15 1/2 inches.

Additional Equipment—for use with No. E-530-4.

For Plaster Ceiling—Use Plaster Ring No. 10-B.

For Protection of Roundel—Use Wire Guard No. WG-10.

COMBINATION NO. E-530-5

(Hinged Concentric Louver Installation)

Consists of:

Permaflex No. E-530.

Hinged Concentric Louver No. 10-B.

Standard Quantity—1

Weight, Approx. 12 lbs.

Retail Price, Each

\$16.75

Code

EFIFY

Ceiling Space Required—Same as for No. E-530-4.

Additional Equipment—for use with No. E-530-5.

For Plaster Ceiling—Use Plaster Ring No. 10-B.



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. E-530 SERIES

ENCLOSED COMBINATIONS

(For Recessed Installations)

(Using 500 or 300 Watt PS-Type Lamp)

Where mechanical protection of the recessed Permaflector is necessary, the addition of a spun aluminum housing ac-

complishes the object. We list and illustrate below our line of fully enclosed units for Permaflector No. E-530.

COMBINATION NO. E-530-7

(With Hinged Ceiling Roundel)

Consists of:

- Permaflector No. E-530-GO
- Porcelain Mogul Socket No. 4.
- Holder
- Spun Aluminum Housing.
- 4" Octagonal Outlet Box, 2 1/8 inches deep.
- Hinged Ceiling Roundel No. 10-B.

Standard Quantity—1

Weight, Approx. 21 lbs.

Retail Price, each\$31.55

CodeEFISET

Ceiling Space Required:

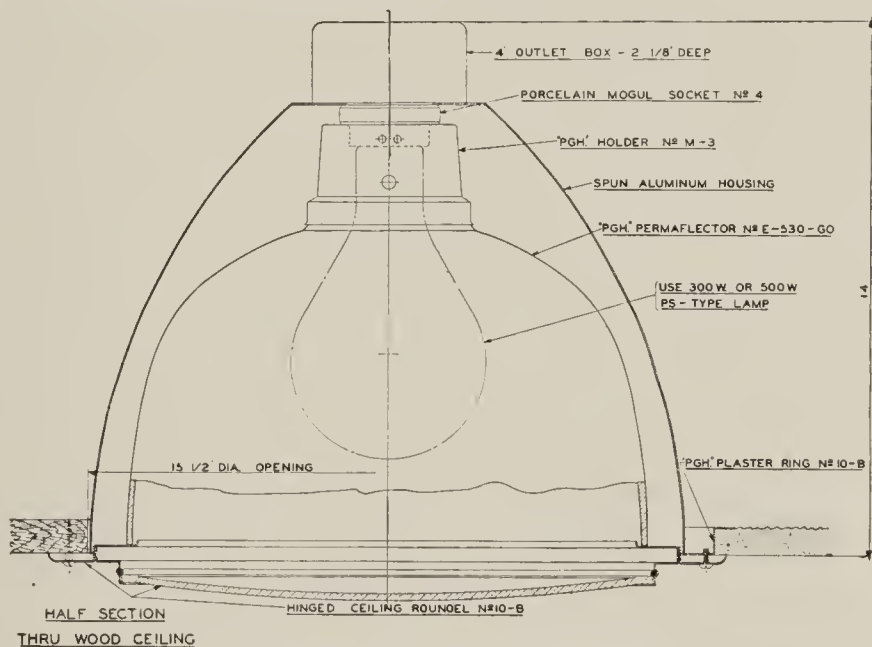
Space Above Ceiling Line—14 inches.

Opening to be Cut in Ceiling, Circular—Diam., 15 1/2 inches.

Additional Equipment—for use with No. E-530-7.

For Plaster Ceiling—Use Plaster Ring No. 10-B.

For Protection of Roundel—Use Wire Guard No. WG-10.



No. E-530-7 Recessed in Ceiling

COMBINATION NO. E-530-8

(With Hinged Concentric Louver)

Consists of:

- Permaflector No. E-530-GO
- Porcelain Mogul Socket No. 4.
- Holder
- Spun Aluminum Housing.
- 4" Octagonal Outlet Box, 2 1/8 inches deep.
- Hinged Concentric Louver No. 10-B.

Standard Quantity—1

Weight, Approx. 19 lbs.

Retail Price, each\$27.25

CodeEFIAT

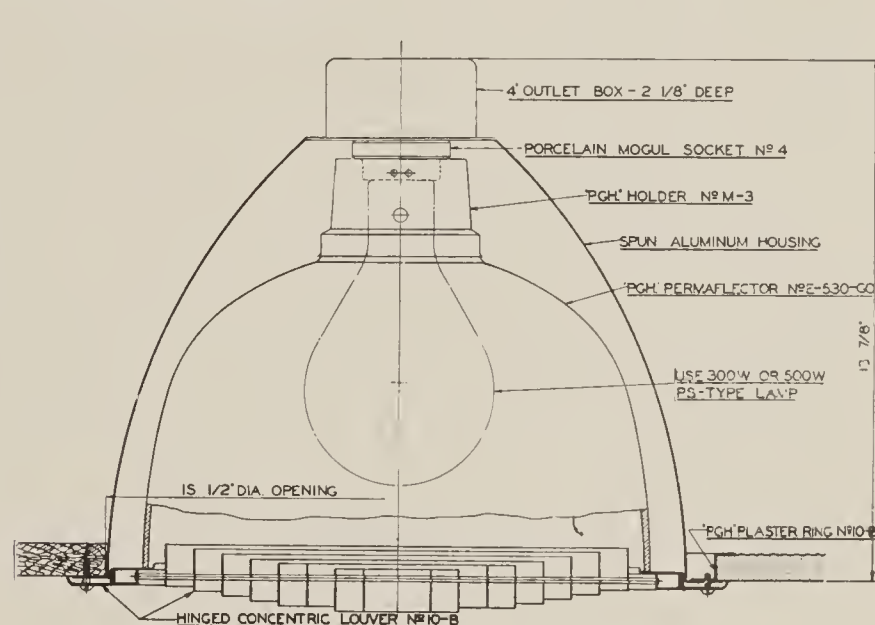
Ceiling Space Required:

Space Above Ceiling Line—14 inches.

Opening to be Cut in Ceiling, Circular—Diam., 15 1/2 inches.

Additional Equipment—for use with No. E-530-8.

For Plaster Ceiling—Use Plaster Ring No. 10-B.



No. E-530-8 Recessed in Ceiling

PERMAFLECTOR NO. E-530-N

FOR INDUSTRIAL LIGHTING

To provide extra support and protection for the Permaflector without the use of a complete housing, we offer this Permaflector incorporating the retaining-ring arrangement. This unit is quickly installed, ready for merely connecting wiring and attaching to a conduit stem.

Consists of:

- Permaflector No. E-530-GO
- Mogul Socket No. 4
- Safety Holder No. M-3-N
- 3—Steel Straps
- Spun Steel Retaining Ring
- Box No. KO-19 1/2—for attaching to 1/2" conduit stem.
- KO-19 3/4—available for attaching to 3/4" conduit stem.

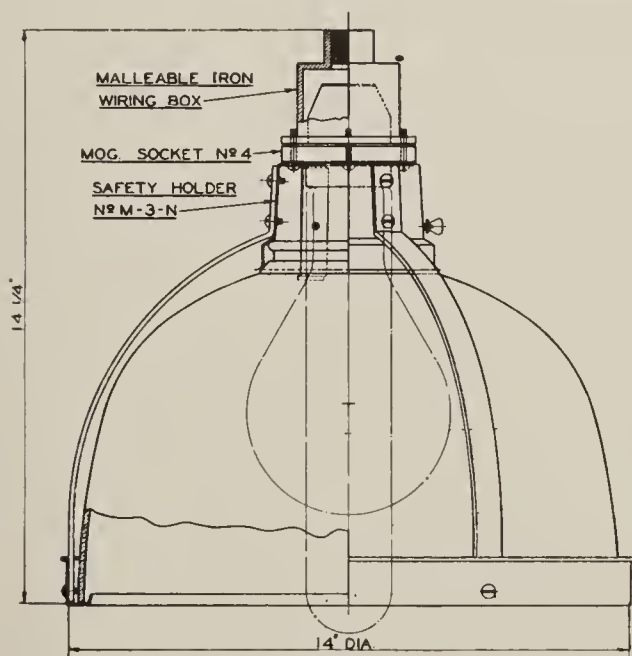
Lamp Size—500 watt PS-40 or 300 watt PS-35

Height Overall—14 1/4 inches

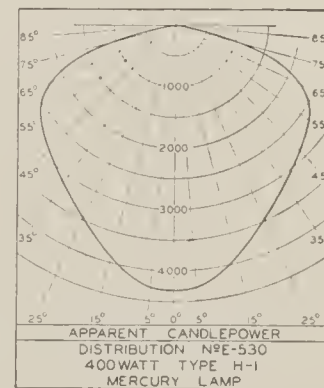
Standard Quantity—1 Weight, Approx. 11 lbs.

Retail Price, each\$16.40

CodeEFUNSEN



E-530-N



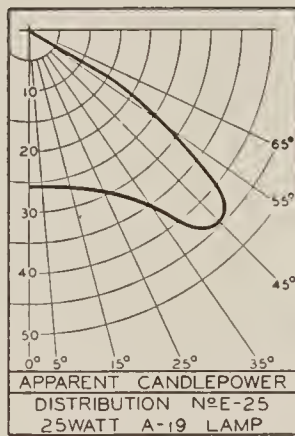
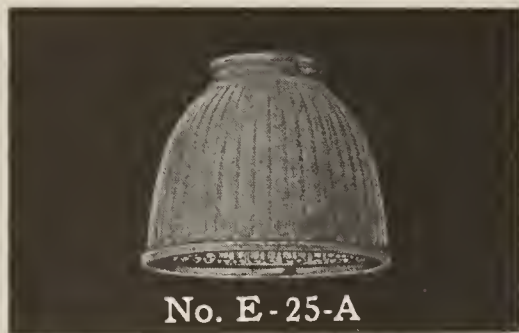
MERCURY LAMP INSTALLATIONS

Permaflector Unit No. E-530 Series may be installed with 400 watt (Type H-1) Mercury Lamps by providing a specially designed auxiliary ballast unit for each lamp. This ballast must be supplied for each 400 watt lamp; may be mounted

near each lamp, or grouped in one or more banks located some distance away. These ballasts are not supplied by Pittsburgh Reflector Company; they are available from any electrical wholesaler.



PERMAFLECTOR NO. E-25-A



Minimum Spacings: for

Mounting on Conduit No. 1—5 inches on centers.

Mounting on Knockout Strip No. KO-1—6 inches on centers.

Dimensions:

Height of Permaflector No. E-25-A—3½ inches.

Bottom Opening Circular—Diameter, 4½ inches.

Lamp Size—25 Watt A-19; 60 Watt A-19.

PERMAFLECTOR NO. E-25-A

Standard Quantity—20

Weight, Approx. 12 lbs.

Retail Price, Each.....\$1.50

CodeETUFIVE

Additional Equipment—for use with No. E-25-A.

Holder:

For Grooved Porcelain Socket—Use

2¼" Form "SR" Holder for 25 Watt A-19 Lamp.

2¼" Form "SLR" Holder for 60 watt A-19 Lamp.

For Porcelain Sockets No. 1 or No. KO-8—Use

2¼" Form "S" Holder for 25 Watt A-19 Lamp.

2¼" Form "SL" Holder for 60 Watt A-19 Lamp.

May Be Installed With: Outlet Box Cover Assembly No. B-1-3¼ or B-1-4 with 2¼" Form "S" or "SL" Holder.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1 with 2¼" Form "S" or "SL" Holder.

Conduit No. 12 with 2¼" Form "SR" Holder.

For Colored Lighting: Use

Color-Lite No. 12-A or No. 12-ADB.

COMBINATION NO. E-25-2

(For Recessed Installation)

(Use 25 Watt A-19 Lamp)

Consists of:

Permaflector No. E-25-A.

Outlet Box Cover Assembly No. B-1-3¼-S.

Flush Mounting Ring No. I-25.

Standard Quantity—20

Weight, Approx. 24 lbs.

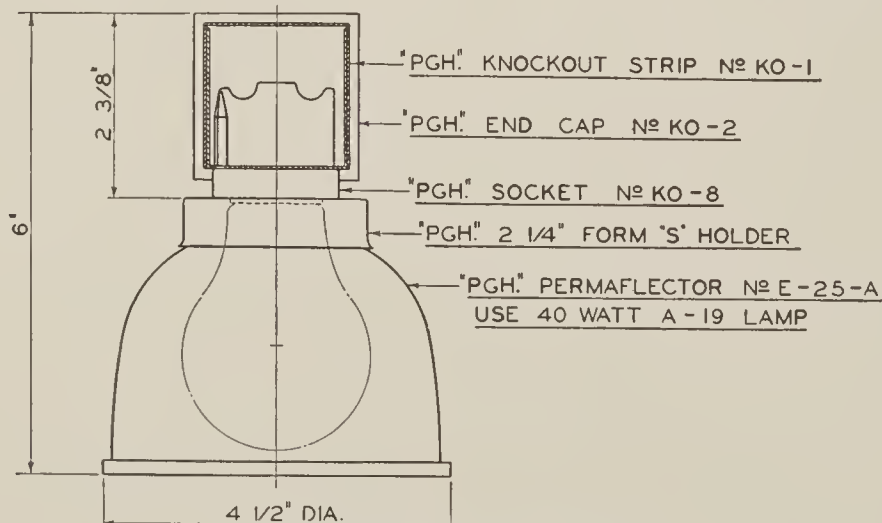
Retail Price, Each.....\$2.40

CodeETUFITU

Ceiling Space Required:

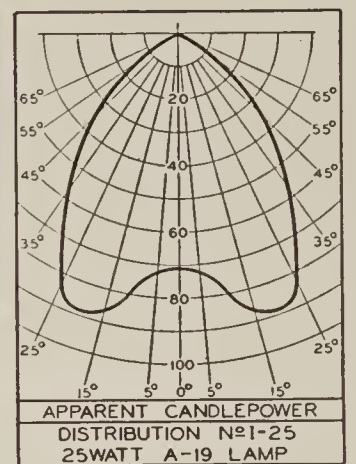
Space Above Ceiling Line—5⅝ inches.

Opening to be Cut in Ceiling, Circular—Diam., 4¾ inches.



No. E-25-A External Mounting

PERMAFLECTOR NO. I-25



Minimum Spacings: for

Mounting on Conduit No. 1—5 inches on centers.

Mounting on Knockout Strip No. KO-1—6 inches on centers.

Dimensions:

Height Permaflector No. I-25—3 inches.

Bottom Opening Circular—Diameter, 4½ inches.

Lamp Size—25 Watt A-19; 60 Watt A-19.

PERMAFLECTOR NO. I-25

Standard Quantity—20

Weight, Approx. 10½ lbs.

Retail Price, Each.....\$1.25

CodeEYETUFI

Additional Equipment—for use with No. I-25.

Holder:

For Grooved Porcelain Socket—Use

2¼" Form "SR" Holder for 25 Watt A-19 Lamp.

2¼" Form "SLR" Holder for 60 watt A-19 Lamp.

For Porcelain Sockets No. 1 or No. KO-8—Use

2¼" Form "S" Holder for 25 Watt A-19 Lamp.

2¼" Form "SL" Holder for 60 Watt A-19 Lamp.

May Be Installed With: Outlet Box Cover Assembly No. B-1-3¼ or B-1-4 with 2¼" Form "S" or "SL" Holder.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1 with 2¼" Form "S" or "SL" Holder.

For Colored Lighting: Use

Color-Lite No. 12-A or No. 12-ADB.

COMBINATION NO. I-25-2

(For Recessed Installations)

(Use 25 Watt A-19 Lamp)

Consists of:

Permaflector No. I-25.

Outlet Box Cover Assembly No. B-1-3¼-S.

Flush Mounting Ring No. I-25.

Standard Quantity—20

Weight, Approx. 22½ lbs.

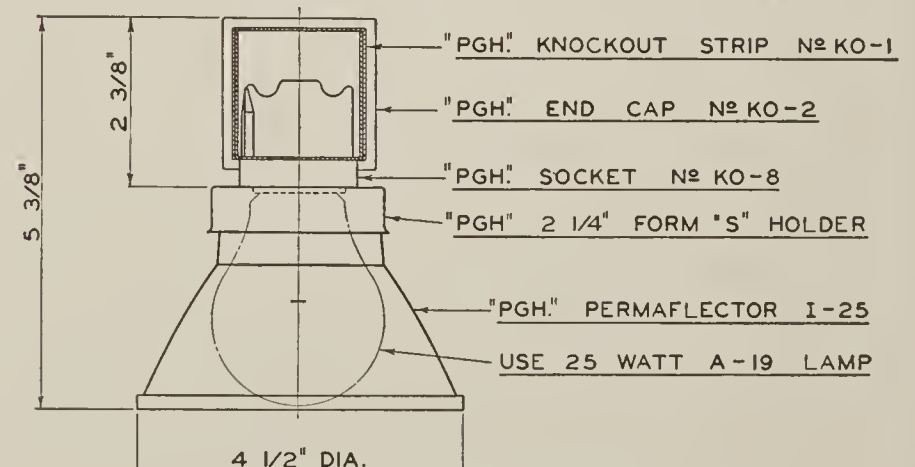
Retail Price, Each.....\$2.15

CodeEYTUFITU

Ceiling Space Required:

Space Above Ceiling Line—5⅝ inches.

Opening to be Cut in Ceiling, Circular—Diam., 4¾ inches.

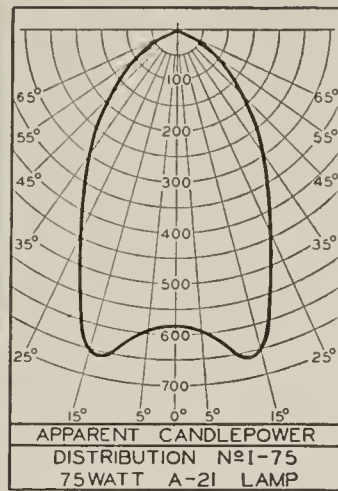


No. I-25 External Mounting



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. I-75 SERIES



Application—Used primarily for direct lighting, exposed or recessed in ceiling.

Spacings on Centers:

For uniform illumination, should not exceed two-thirds the height of bottom of reflector above work plane.

Minimum Spacings: for

Mounting on Conduit No. 1—9 inches on centers.

Mounting on Knockout Strip No. KO-1—9 inches on centers.

Dimensions:

Height Permalector No. I-75—4 3/4 inches.

Bottom Opening Circular—Diameter, 8 3/8 inches.

Lamp Size: 60 Watt A-19; 75 Watt A-21; 100 Watt A-21.

PERMAFLECTOR NO. I-75

Standard Quantity—10

Weight, Approx. 14 1/2 lbs.

Retail Price, Each.....\$2.75

CodeISEVFI

Additional Equipment—for use with No. I-75.

Holder:

With Grooved Porcelain Socket—Use

2 1/4" Form "SR" Holder for 60 Watt A-19 Lamp.

2 1/4" Form "SLR" Holder for 75 or 100 Watt A-21 Lamp.

With Porcelain Sockets No. 1 or No. KO-8—Use

2 1/4" Form "S" Holder for 60 Watt A-19 Lamp.

2 1/4" Form "SL" Holder for 75 or 100 Watt A-21 Lamp.

May Be Installed With: Outlet Box Cover Assembly No.

B-1-3 1/4 or B-1-4 with 2 1/4" Form "S" or "SL" Holder.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1 with 2 1/4" Form "S" or "SL" Holder.

For Colored Lighting: Use

Color-Lite No. 6 or No. 6-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-55 for external mounting.

Concentric Louver No. EM-55-C for external mounting.

COMBINATION NO. I-75-2

(For Recessed Installation)

(Use 100 Watt A-21 Lamp)

Consists of:

Permalector No. I-75.

Outlet Box Cover Assembly No. B-1-3 1/4-SL.

Flush Mounting Ring No. 55.

Standard Quantity—10

Weight, Approx. 22 lbs.

Retail Price, Each.....\$3.87

CodeISEVFITU

Ceiling Space Required:

Space Above Ceiling Line—7 1/8 inches.

Opening to be Cut in Ceiling, Circular—Diam., 8 5/8 inches.

Additional Equipment—for use with No. I-75-2.

For Plaster Ceiling—Use Plaster Ring No. 55-A.

For Colored Lighting—Use Color-Lite No. 61 or No. 61-DB.

For Ceiling Roundel (Not Hinged)—Use

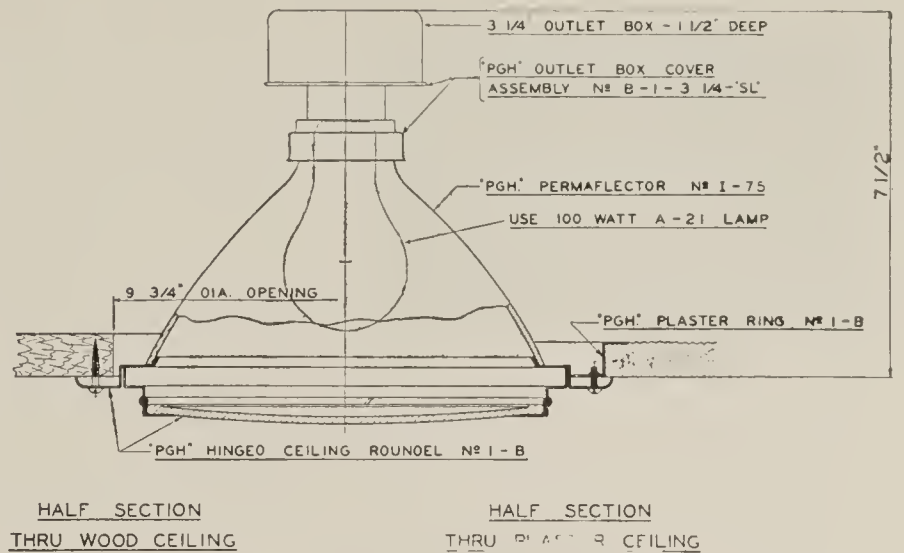
Ceiling Roundel No. 62 with or without Wire Guard No. WG-1.

For Louvered Lighting—Use

Parallel Louver No. FM-55.

Concentric Louver No. FM-55-C.

Egg Crate Louver No. FEC-100.



No. I-75-4 Recessed in Ceiling

COMBINATION NO. I-75-4

(Hinged Ceiling Roundel Installation)

(Use 100 Watt A-21 Lamp)

Consists of:

Permalector No. I-75.

Outlet Box Cover Assembly No. B-1-3 1/4-SL.

Hinged Ceiling Roundel No. 7-B.

Standard Quantity—10

Weight, Approx. 40 lbs.

Retail Price, Each.....\$7.20

CodeISEVFIFO

Ceiling Space Required:

Space Above Ceiling Line—7 1/2 inches.

Opening to be Cut in Ceiling, Circular—Diam., 9 3/4 inches.

Additional Equipment—for use with No. I-75-4.

For Plaster Ceiling—Use Plaster Ring No. 1-B.

For Protection of Roundel—Use Wire Guard No. WG-1.

COMBINATION NO. I-75-5

(Hinged Concentric Louver Installation)

(Use 100 Watt A-21 Lamp)

Consists of:

Permalector No. I-75.

Outlet Box Cover Assembly No. B-1-3 1/4-SL.

Hinged Concentric Louver No. 7-B.

Standard Quantity—10

Weight, Approx. 33 lbs.

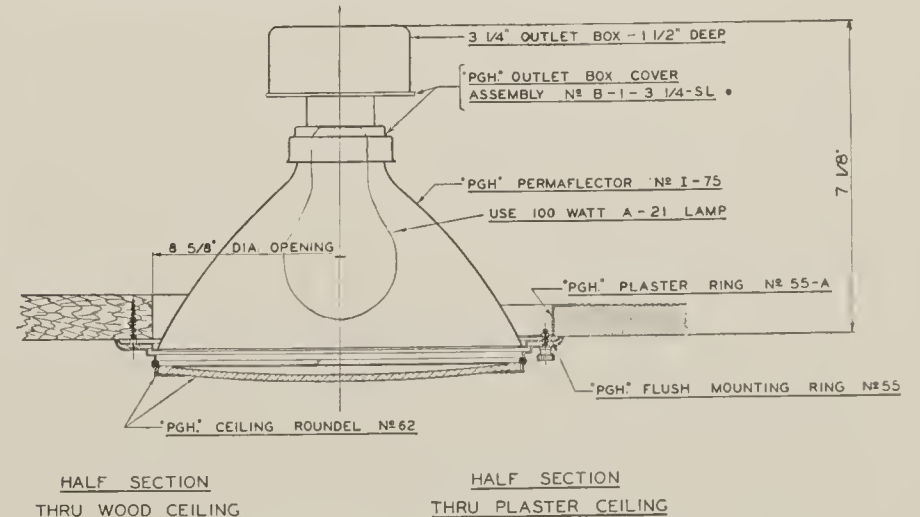
Retail Price, Each.....\$7.20

CodeISEVFIFI

Ceiling Space Required—Same as for No. I-75-4.

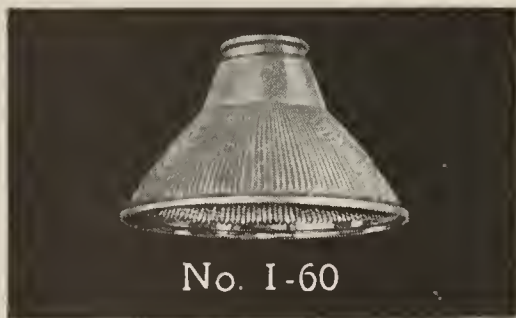
Additional Equipment—for use with No. I-75-5.

For Plaster Ceiling—Use Plaster Ring No. 1-B.

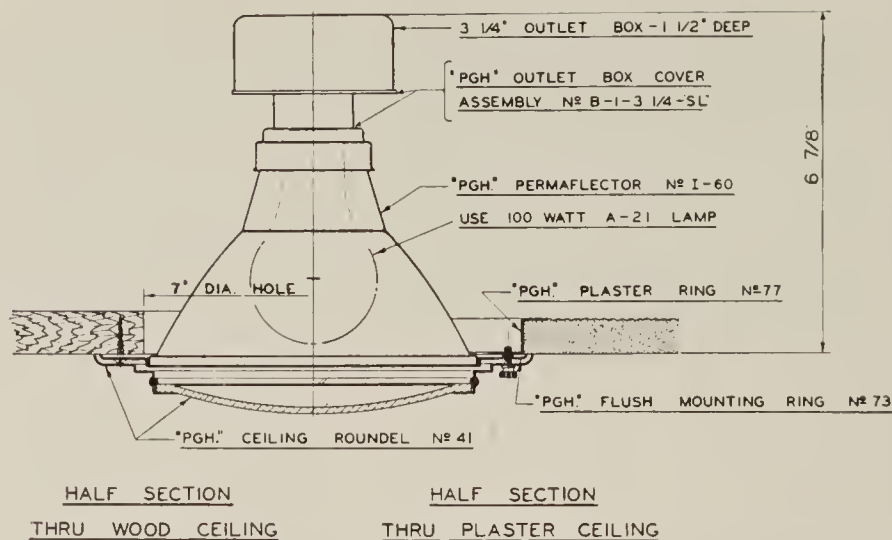
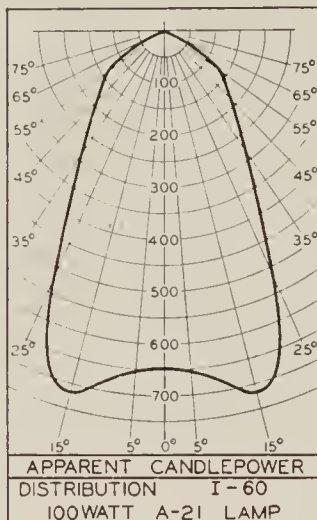


No. I-75-2 Recessed in Ceiling with Ceiling Roundel No. 62

PERMAFLECTOR NO. I-60 SERIES



No. I-60



Application—A good indirect cove lighting reflector. Also may be recessed in ceiling. It is supplied with No. WF-100 Interior Flood and Floodlight No. FLC-100.

Spacings on Centers:

For uniform illumination, should not exceed two-thirds the height of bottom of reflector above work plane.

Minimum Spacings: for

Mounting on Conduit No. 1—7 1/2 inches on centers.

Mounting on Knockout Strip No. KO-1—9 inches on centers.

Dimensions:

Height Permaflector No. I-60—4 7/8 inches.

Bottom Opening Circular—Diameter, 6 3/4 inches.

Lamp Size—60 Watt A-19; 75 Watt A-21; 100 Watt A-21.

No. I-60-2 Recessed in Ceiling with Ceiling Roundel No. 41

COMBINATION NO. I-60-4

(Hinged Ceiling Roundel Installation)

(Use 100 Watt A-21 Lamp)

Consists of:

Permaflector No. I-60.

Outlet Box Cover Assembly No. B-1-3 1/4-SL.

Hinged Ceiling Roundel No. 4-B.

Standard Quantity—10

Weight, Approx. 30 lbs.

Retail Price, Each.....\$5.70

CodeEYSIFO

Ceiling Space Required:

Space Above Ceiling Line—7 3/8 inches.

Opening to be Cut in Ceiling, Circular—Diam., 7 7/8 inches.

Additional Equipment—for use with No. I-60-4.

For Plaster Ceiling—Use Plaster Ring No. 4-B.

For Protection of Roundel—Use Wire Guard No. WG-4.

COMBINATION NO. I-60-5

(Hinged Concentric Louver Installation)

(Use 100 Watt A-21 Lamp)

Consists of:

Permaflector No. I-60.

Outlet Box Cover Assembly No. B-1-3 1/4-SL.

Hinged Concentric Louver No. 4-B.

Standard Quantity—10

Weight, Approx. 26 lbs.

Retail Price, Each.....\$5.70

CodeEYSIFI

Ceiling Space Required—Same as for I-60-4.

Additional Equipment—for use with I-60-5.

For Plaster Ceiling—Use Plaster Ring No. 4-B.

COMBINATION NO. I-60-2

(For Recessed Installation)

(Use 100 Watt A-21 Lamp)

Consists of:

Permaflector No. I-60.

Outlet Box Cover Assembly No. B-1-3 1/4-SL.

Flush Mounting Ring No. 73.

Standard Quantity—10

Weight, Approx. 17 lbs.

Retail Price, Each.....\$3.08

CodeEYSITU

Ceiling Space Required:

Space Above Ceiling Line—6 7/8 inches.

Opening to be Cut in Ceiling, Circular—Diam., 7 inches.

Additional Equipment—for use with No. I-60-2.

For Plaster Ceiling—Use Plaster Ring No. 77.

For Colored Lighting—Use Color-Lite No. 41 or No. 41-DB.

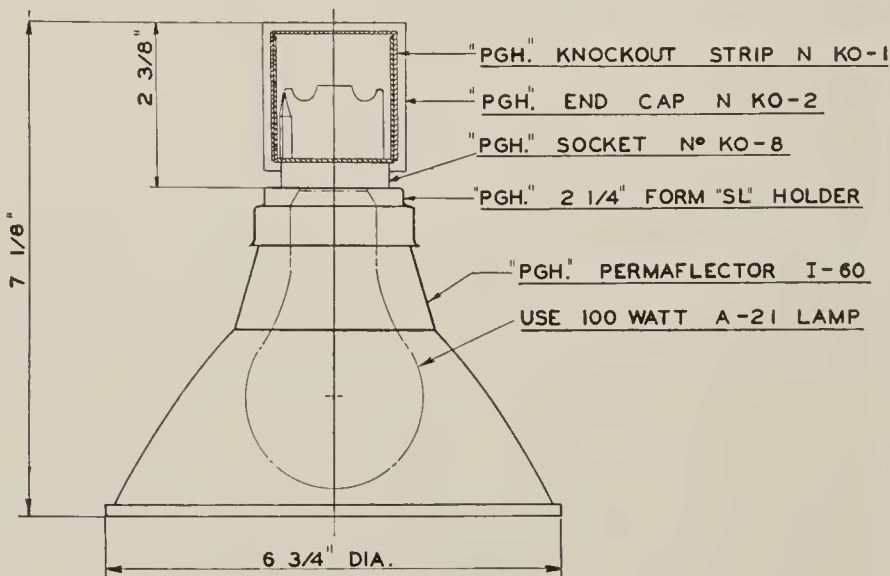
For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 41 with or without Wire Guard No. WG-4.

For Louvered Lighting—Use

Parallel Louver No. FM-77.

Concentric Louver No. FM-77-C.

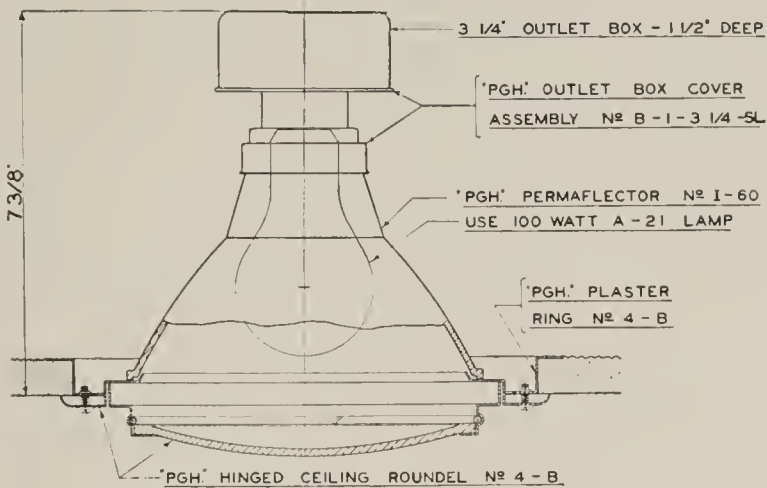


No. I-60 External Mounting

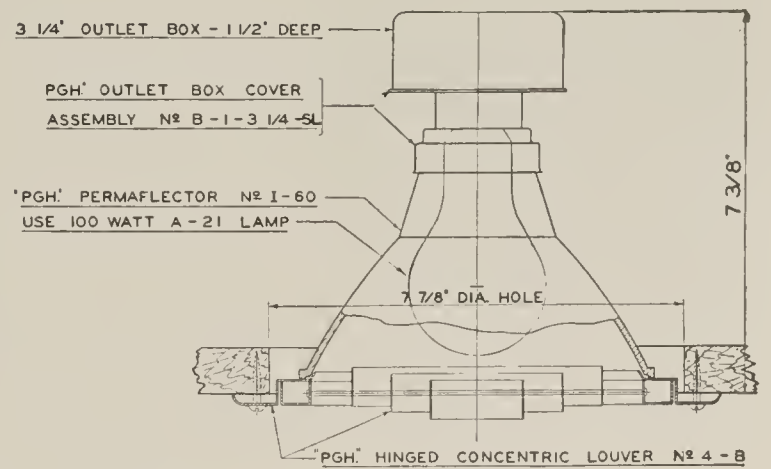


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. I-60 SERIES



No. I-60-4 Recessed in Ceiling



No. I-60-5 Recessed in Ceiling

ENCLOSED COMBINATIONS

(For Recessed Installations)
(Using 100 Watt A-21 Lamps)

Where mechanical protection of the recessed Permaflexor is necessary the addition of a spun aluminum housing ac-

complishes the object. We list and illustrate below our line of fully enclosed units for Permaflexor No. I-60.

COMBINATION NO. I-60-7

(With Hinged Ceiling Roundel)

Consists of:

- Permaflexor No. I-60.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- Holder
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Ceiling Roundel No. 4-B.

Standard Quantity—1

Weight, Approx. 7 lbs.

Retail Price, Each.....\$9.75

CodeEYSISET

Ceiling Space Required:

- Space Above Ceiling Line—7 1/2 inches.
- Opening to be Cut in Ceiling, Circular—Diam., 7 7/8 inches.

Additional Equipment—for use with No. I-60-7.

For Plaster Ceiling—Use Plaster Ring No. 4-B.

For Protection of Roundel—Use Wire Guard No. WG-4.

COMBINATION NO. I-60-8

(With Hinged Concentric Louver)

Consists of:

- Permaflexor No. I-60.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- Holder
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Concentric Louver No. 4-B.

Standard Quantity—1

Weight, Approx. 6 1/2 lbs.

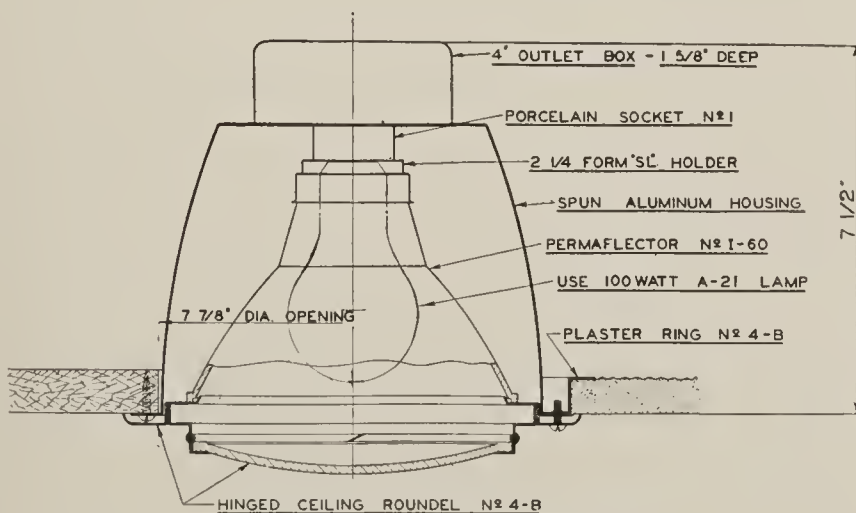
Retail Price, Each.....\$9.75

CodeEYSIAT

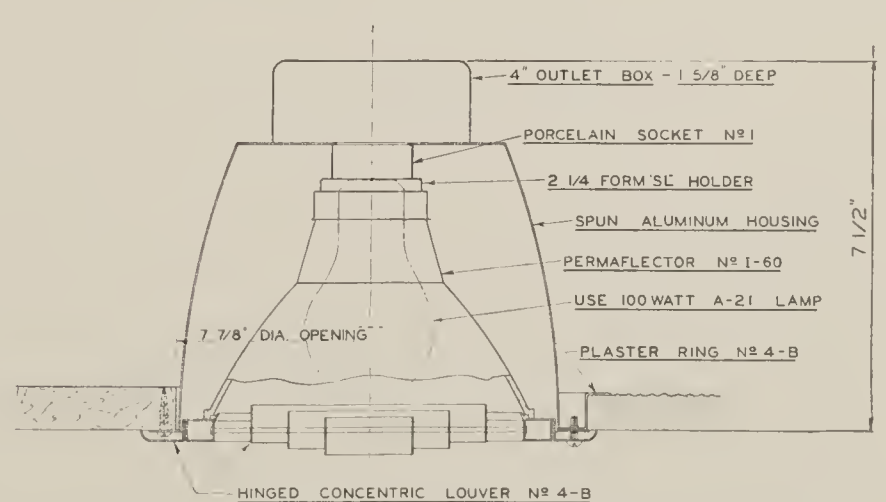
Ceiling Space Required—Same as for No. I-60-7.

Additional Equipment—for use with No. I-60-8.

For Plaster Ceiling—Use Plaster Ring No. 4-B.



No. I-60-7 Recessed in Ceiling

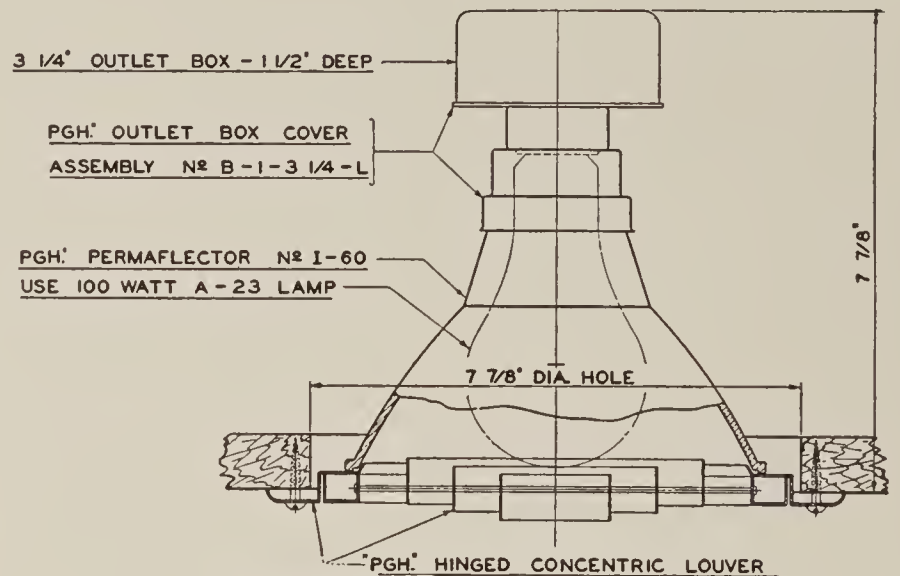
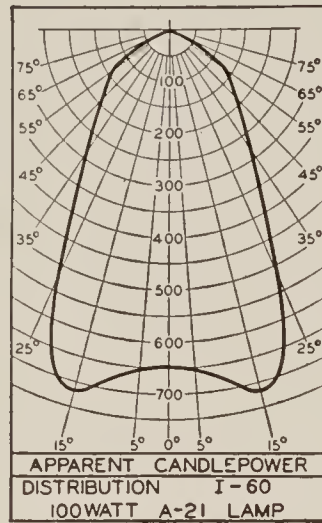


No. I-60-8 Recessed in Ceiling.

PERMAFLECTOR RECESSED LIGHTING UNITS



No. I-60-4S Installed in Plaster Ceiling with Plaster Ring No. 4-B



No. I-60-5S, Recessed in Ceiling

FOR RESIDENCE KITCHENS

The trend in residence lighting design has been pointing steadily away from the inefficient decorative style of fixture toward modern, efficient, functional lighting based upon the seeing requirements of household tasks and recreational activities. Indicative of this trend is the increasing popularity of Permalector Recessed Lighting Units for use in kitchens, recreation rooms, entrance-ways and similar locations. Their built-in feature, permanent efficiency, glareless illumination, ease of maintenance and modern appearance are a few of

the appealing advantages that are winning the approval of rational home buyers and builders everywhere.

Permalector Recessed Combination Units are of a special design created for use in residence kitchens to be recessed in the ceiling above working areas such as the stove, sink and table. They provide higher levels of illumination where the tasks demand easier, quicker seeing without glare and fatigue.

COMBINATION NO. I-60-4S

(Hinged Ceiling Roundel Installation)
(Use 100 Watt A-21 Lamp)

Consists of:

- Permalector No. I-60.
- Outlet Box Cover Assembly No. B-1-3 1/4-SL.
- 6 1/2" Dia. Stippled Glass Roundel.
- Spun Aluminum Hinged Frames, Satin Finish.

Standard Quantity—10

Weight, Approx. 30 lbs.

Retail Price, Each.....\$6.30

CodeISIFS

Ceiling Space Required:

- Space Above Ceiling Line—7 3/8 inches.
- Opening to be Cut in Ceiling, Circular—Diam., 7 7/8 inches.

Additional Equipment—for use with No. I-60-4S.

For Plaster Ceiling—Use Plaster Ring No. 4-B.

COMBINATION NO. I-60-5S

(Hinged Concentric Louver Installation)
(Use 100 Watt A-21 Lamp)

Consists of:

- Permalector No. I-60.
- Outlet Box Cover Assembly No. B-1-3 1/4-SL.
- Three Concentric Steel Vanes, Satin Finish.
- Spun Aluminum Hinged Frames, Satin Finish.

Standard Quantity—10

Weight, Approx. 26 lbs.

Retail Price, Each.....\$6.30

CodeISIFES

Ceiling Space Required—Same as for I-60-4S.

Additional Equipment—for use with No. I-60-4S.

For Plaster Ceiling—Use Plaster Ring No. 4-B.

ENCLOSED COMBINATIONS

(For Recessed Installations)
(Use 100 Watt A-21 Lamp)

Where mechanical protection of the recessed Permalector is necessary, the addition of a spun aluminum housing ac-

complishes the object. We list below our line of fully enclosed units for residence kitchen lighting.

COMBINATION NO. I-60-7S

(With Hinged Ceiling Roundel)

Consists of:

- Permalector No. I-60.
- Porcelain Socket No. 1.
- Spun Aluminum Housing.
- 4" Octagonal Outlet Box, 1 5/8" Deep.
- 6 1/2" Dia. Stippled Glass Roundel.
- Spun Aluminum Hinged Frames, Satin Finish.

Standard Quantity—1

Weight, Approx. 7 lbs.

Retail Price, Each.....\$10.35

CodeISISES

Ceiling Space Required:

- Space Above Ceiling Line—7 3/8 inches.
- Opening to be Cut in Ceiling, Circular—Diam., 7 7/8 inches.

Additional Equipment—for use with No. I-60-7S.

For Plaster Ceiling—Use Plaster Ring No. 4-B.

COMBINATION NO. I-60-8S

(With Hinged Concentric Louver)

Consists of:

- Permalector No. I-60.
- Porcelain Socket No. 1.
- Spun Aluminum Housing.
- 4" Octagonal Outlet Box, 1 5/8" Deep.
- Three Concentric Steel Vanes, Satin Finish.
- Spun Aluminum Hinged Frames, Satin Finish.

Standard Quantity—1

Weight, Approx. 6 1/2 lbs.

Retail Price, Each.....\$10.35

CodeISIATES

Ceiling Space Required—Same as for No. I-60-7S.

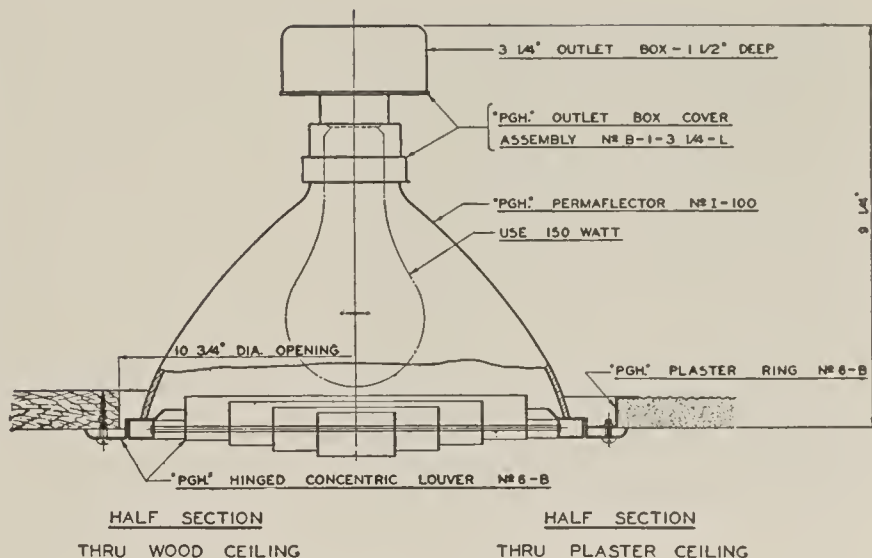
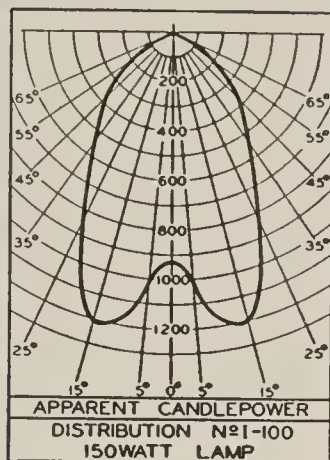
Additional Equipment—for use with No. I-60-8S.

For Plaster Ceiling—Use Plaster Ring No. 4-B.



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. I-100 SERIES



Application—Used chiefly for direct lighting, exposed or recessed in ceiling.

Spacings on Centers:

For uniform illumination, should not exceed two-thirds the height of bottom of reflector above work plane.

Minimum Spacings: for

Mounting on Conduit No. 1—10½ inches on centers.

Mounting on Knockout Strip No. KO-1—12 inches on centers.

Dimensions:

Height Permaflector No. I-100—5⅞ inches.

Bottom Opening Circular—Diameter, 9¾ inches.

Lamp Size: 150 Watt PS-25.

PERMAFLECTOR NO. I-100

Standard Quantity—10

Weight, Approx. 19 lbs.

Retail Price, Each.....\$3.25

CodeIHUNDER

Additional Equipment—for use with No. I-100.

Holder:

With Grooved Porcelain Socket—Use

2¼" Form "LR" Holder for 150 Watt A-25 Lamp.

With Porcelain Sockets No. 1 or No. KO-8—Use

2¼" Form "L" Holder for 150 Watt A-25 Lamp.

May Be Installed With: Outlet Box Cover Assembly No. B-1-3¾ or B-1-4 with 2¼ inch Form "L" Holder.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1 with 2¼" Form "L" Holder.

For Colored Lighting: Use

Color-Lite No. 2 or No. 2-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-54 for external mounting.

Concentric Louver No. EM-54-C for external mounting.

COMBINATION NO. I-100-2

(For Recessed Installation)
(Use 150 Watt PS-25 Lamp)

Consists of:

Permaflector No. I-100.

Outlet Box Cover Assembly No. B-1-3¾-L.

Flush Mounting Ring No. I-201.

Standard Quantity—10

Weight, Approx. 29 lbs.

Retail Price, Each.....\$4.60

CodeIHUNTU

Ceiling Space Required:

Space Above Ceiling Line—8⅞ inches.

Opening to be Cut in Ceiling, Circular—Diam., 10 inches.

Additional Equipment—for use with No. I-100-2.

For Plaster Ceiling—Use Plaster Ring No. 54.

For Colored Lighting—Use Color-Lite No. 21 or No. 21-DB.

For Ceiling Roundel (Not Hinged)—Use

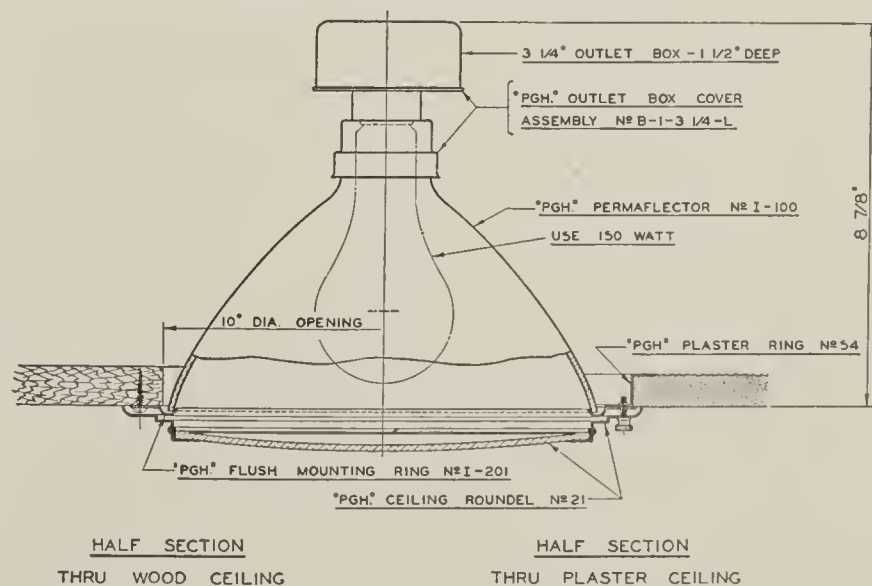
Ceiling Roundel No. 21 with or without Wire Guard No. WG-6.

For Louvered Lighting—Use

Parallel Louver No. FM-54.

Concentric Louver No. FM-54-C.

Egg Crate Louver No. FEC-200.

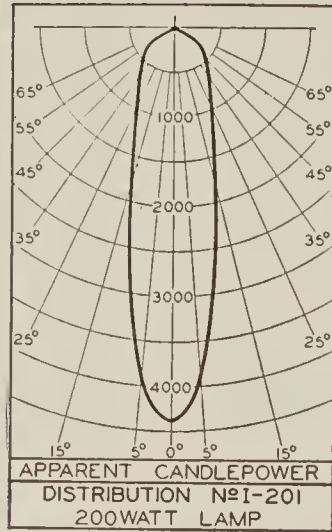


No. I-100-2 Recessed in Ceiling
with Ceiling Roundel No. 21

PERMAFLECTOR NO. I-201 SERIES



No. I-201-A



Application—This Permaflector is used with Flood WF-200. Excellent for recessing in ceiling, equipped with flush mounting ring and concentric louver or hinged ceiling roundel. Provides high intensity of illumination over restricted area.

Spacings on Centers:

For uniform illumination, should not exceed two-thirds of the height of bottom of reflector above work plane.

Minimum Spacings: for

Mounting on Conduit No. 1—10½ inches on centers.
Mounting on Knockout Strip No. KO-1—12 inches on centers.

Dimensions:

Height with Adapter No. 1256 Extended—7¼ inches.
Height with Adapter No. 1256 Compressed—6⅞ inches.
Height Permaflector No. I-201-GO—5 inches.
Bottom Opening Circular—Diameter, 9⅞ inches.

Lamp Size—

200 Watt PS-30, Adapter Extended.
150 Watt PS-25, Adapter Compressed.

PERMAFLECTOR NO. I-201-A

Consists of:

Permaflector No. I-201-GO and Adapter No. 1256.

Standard Quantity—10

Weight, Approx. 21 lbs.

Retail Price, Each.....\$4.50

CodeITUHUNWON

Additional Equipment—for use with No. I-201-A.

May Be Installed With:

Outlet Box Cover Assembly No. B-1-3¼ or B-1-4.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1.

For Colored Lighting: Use

Color-Lite No. 2 or No. 2-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-54 for external mounting.
Concentric Louver No. EM-54-C for external mounting.

PERMAFLECTOR NO. I-201-R

Consists of:

Permaflector No. I-201-GO and Adapter No. 1256-R for use where grooved porcelain sockets are installed.

Standard Quantity—10

Weight, Approx. 21 lbs.

Retail Price, Each.....\$4.50

CodeITUHUNONER

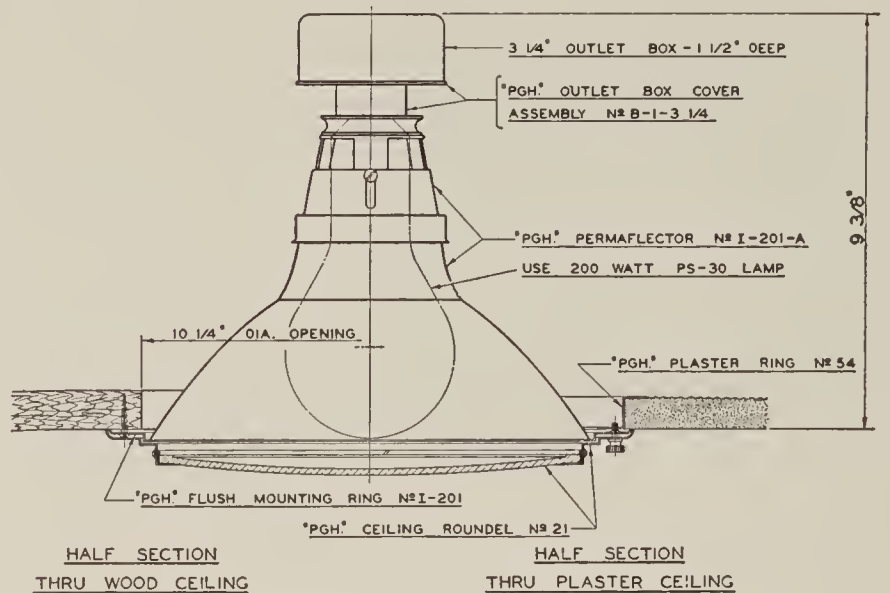
Additional Equipment—for use with No. I-201-R.

For Colored Lighting—Same as for No. I-201-A.

For Louvered Lighting—Same as for No. I-201-A.

RECESSED LIGHTING

Modern architectural practice favors expanses of free space, unbroken by suspended lighting fixtures. Concealed indirect lighting equipment accomplishes this objective. But where indirect illumination is not applicable, ceiling-recessed Permaflectors concealed by glass or louvers are desirable.



No. I-201-2 Recessed in Ceiling with Ceiling Roundel No. 21

COMBINATION NO. I-201-2

(For Recessed Installation)

Consists of:

Permaflector No. I-201-A.
Outlet Box Cover Assembly No. B-1-3¼.
Flush Mounting Ring No. I-201.

Standard Quantity—10

Weight, Approx. 30 lbs.

Retail Price, Each.....\$5.60

CodeITUNTU

Ceiling Space Required:

Space Above Ceiling Line—9⅞ inches (Adapter Extended).
Opening to be Cut in Ceiling, Circular—Diam., 10¼ inches.

Additional Equipment—for use with No. I-201-2.

For Plaster Ceiling—Use Plaster Ring No. 54.

For Colored Lighting—Use Color-Lite No. 21 or No. 21-DB.

For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 21 with or without Wire Guard No. WG-6.

For Louvered Lighting—Use

Parallel Louver No. FM-54.
Concentric Louver No. FM-54-C.
Egg Crate Louver No. FEC-200.

COMBINATION NO. I-201-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. I-201-A.
Outlet Box Cover Assembly No. B-1-3¼.
Hinged Ceiling Roundel No. 8-B.

Standard Quantity—10

Weight, Approx. 56 lbs.

Retail Price, Each.....\$9.95

CodeITUNFO

Ceiling Space Required:

Space Above Ceiling Line—9¾ inches (Adapter Extended).
Opening to be Cut in Ceiling, Circular—Diam., 12½ inches.

Additional Equipment—for use with No. I-201-4.

For Plaster Ceiling—Use Plaster Ring No. 8-B.

For Protection of Roundel—Use Wire Guard No. WG-8.

COMBINATION NO. I-201-5

(Hinged Concentric Louver Installation)

Consists of:

Permaflector No. I-201-A.
Outlet Box Cover Assembly No. B-1-3¼.
Hinged Concentric Louver No. 8-B.

Standard Quantity—10

Weight, Approx. 42 lbs.

Retail Price, Each.....\$9.45

CodeITUNFI

Ceiling Space Required—Same as for No. I-201-4.

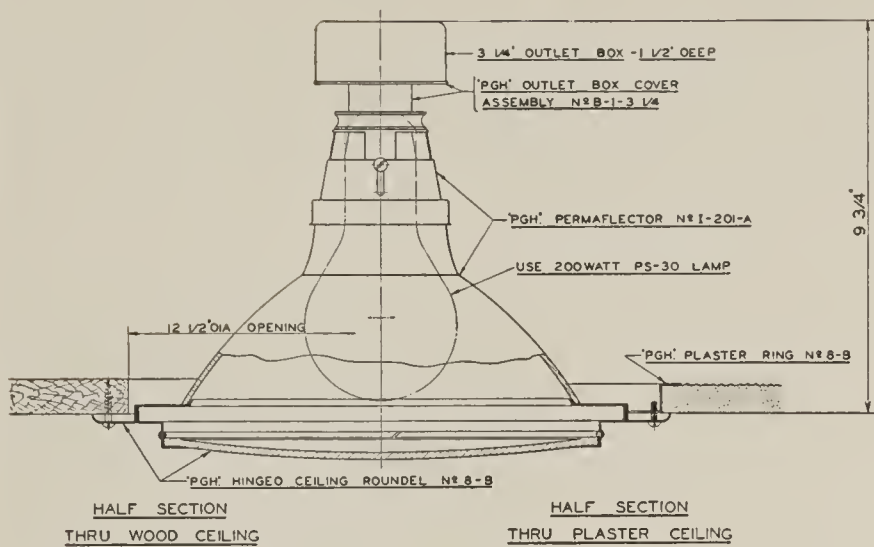
Additional Equipment—for use with No. I-201-5.

For Plaster Ceiling—Use Plaster Ring No. 8-B.

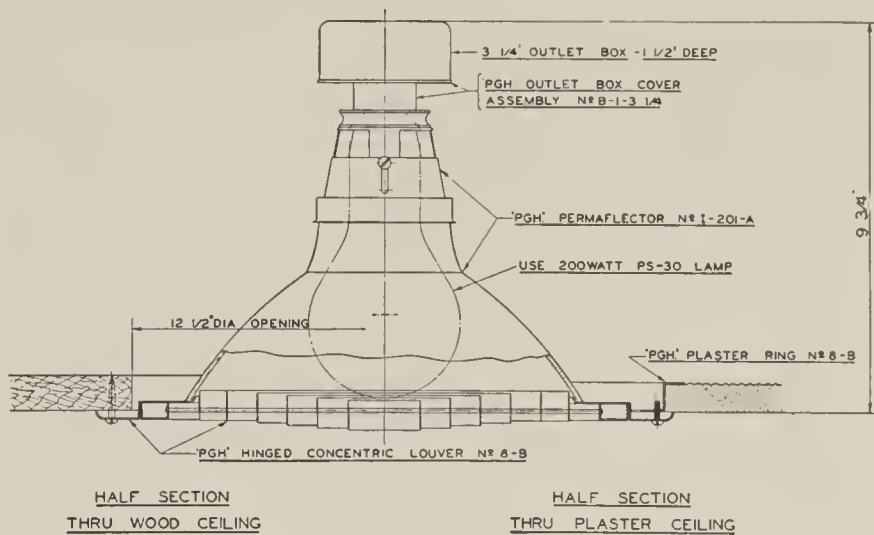


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. I-201 SERIES



No. I-201-4 Recessed in Ceiling



No. I-201-5 Recessed in Ceiling

ENCLOSED COMBINATIONS

(For Recessed Installations)
(Use 200 Watt PS-30 Lamp)

Where mechanical protection of the recessed Permaflexor is necessary the addition of a spun aluminum housing ac-

complishes the object. We list and illustrate below our line of fully enclosed units for Permaflexor No. I-201-A.

COMBINATION NO. I-201-7

(Hinged Ceiling Roundel Installation)

Consists of:

- Permaflexor No. I-201-A.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Ceiling Roundel No. 8-B.

Standard Quantity—1

Weight, Approx. 11 lbs.

Retail Price, Each.....\$16.25

CodeITUNSET

Ceiling Space Required:

- Space Above Ceiling Line—9 7/8 inches.
- Opening to be Cut in Ceiling, Circular—Diam., 12 1/2 inches.

Additional Equipment—for use with I-201-7.

For Plaster Ceiling—Use Plaster Ring No. 8-B.

For Protection of Roundel—Use Wire Guard No. WG-8.

COMBINATION NO. I-201-8

(Hinged Concentric Louver Installation)

Consists of:

- Permaflexor No. I-201-A.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Concentric Louver No. 8-B.

Standard Quantity—1

Weight, Approx. 10 lbs.

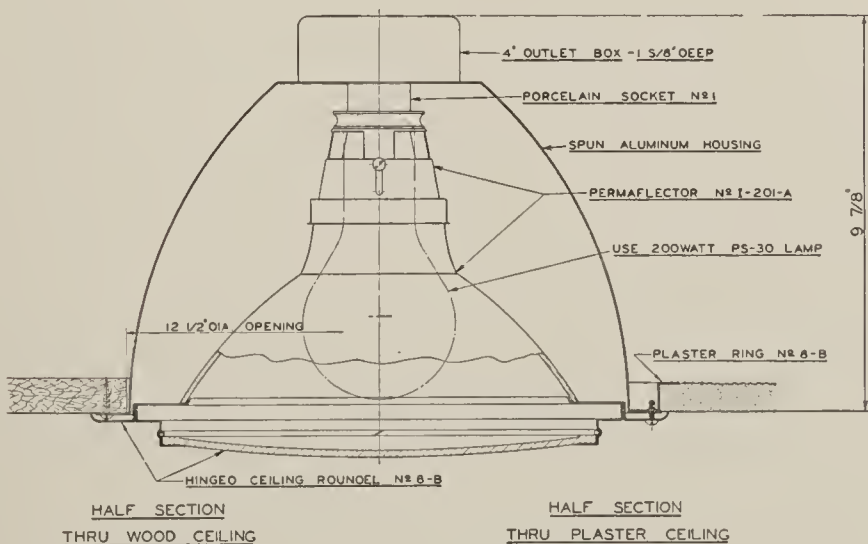
Retail Price, Each.....\$15.75

CodeITUNAT

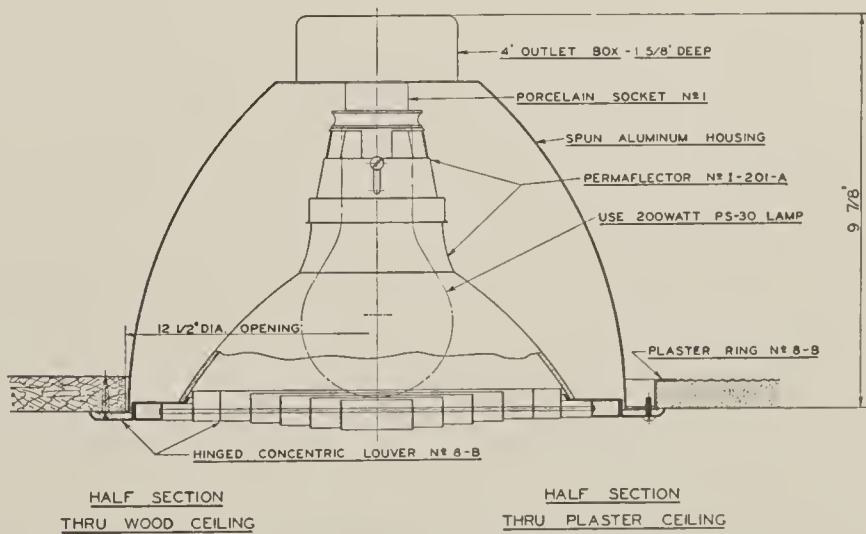
Ceiling Space Required—Same as for No. I-201-7.

Additional Equipment—for use with No. I-201-8.

For Plaster Ceiling—Use Plaster Ring No. 8-B.



No. I-201-7 Recessed in Ceiling



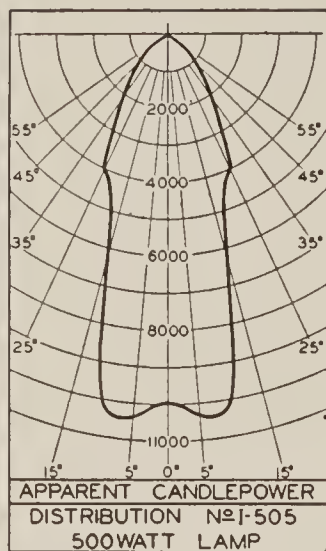
No. I-201-8 Recessed in Ceiling



PERMAFLECTOR NO. I-505 SERIES



No. I-505



Application—For high bay industrial lighting where the lighting equipment is located 25 ft. or more above the floor and exceptional concentration is required. Very effective for lighting through skylights as in art galleries, bank lobbies and similar applications. Also a splendid reflector for service in direct lighting ornamental lanterns. (See also I-505-S.)

Spacings on Centers:

For uniform illumination, should not exceed two-thirds the height of bottom of reflector above plane.

Dimensions:

Height Permaflector No. I-505-GO—9¾ inches.

Bottom Opening Circular—Diameter 16 inches.

Lamp Size: 500 Watt PS-40 or 300 Watt PS-35.

PERMAFLECTOR NO. I-505

Consists of:

Permaflector No. I-505-GO.

Outlet Box Cover Assembly No. B-3.

Holder No. M-3.

Attaches to any standard 4" Outlet Box, 1½ inches deep.

Standard Quantity—1

Weight, Approx. 13 lbs.

Retail Price, Each:

Permaflector No. I-505\$15.00

Permaflector No. I-505-GO (Glass Only).....\$13.15

Code:

Permaflector No. I-505IFIHUNFIVE

Permaflector No. I-505-GOIFIHUFGLA

PERMAFLECTOR NO. I-505-B

Consists of:

Permaflector No. I-505-GO.

Porcelain Mogul Socket No. 4.

Holder No. M-3.

Box No. KO-19-½—for attaching to ½ inch conduit stem.

(KO-19-¾—available for attaching to ¾ inch conduit stem.)

Standard Quantity—1

Weight, Approx. 13 lbs.

Retail Price, Each.....\$15.00

CodeIFIHUFYBI

COMBINATION NO. I-505-2

(For Recessed Installation)

Consists of:

Permaflector No. I-505.

Flush Mounting Ring No. I-1005.

Standard Quantity—1

Weight, Approx. 20 lbs.

Retail Price, Each.....\$17.10

CodeIFIOFITU

Ceiling Space Required:

Space Above Ceiling Line—14¼ inches.

Opening to be Cut in Ceiling, Circular—Diam., 16¼ inches.

Additional Equipment—for use with No. I-505-2.

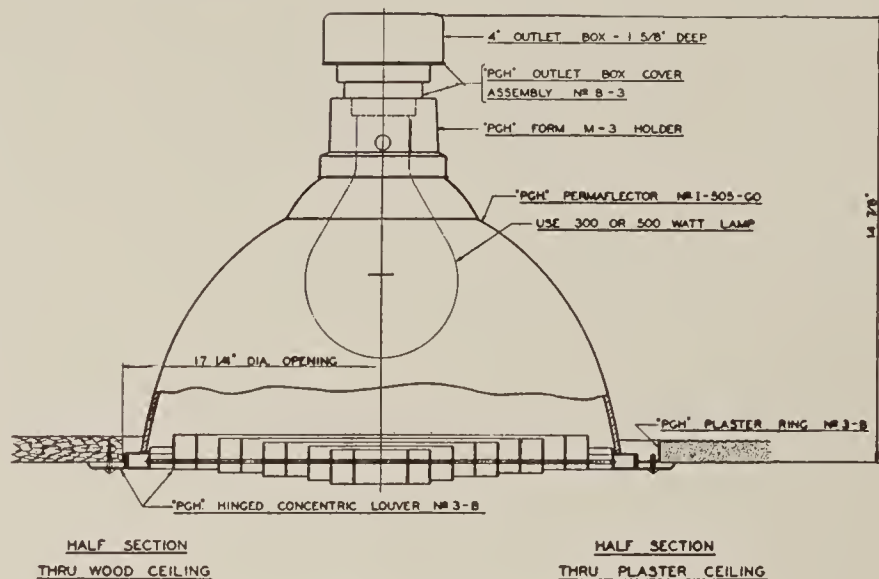
For Plaster Ceiling—Use Plaster Ring No. 3-B.

For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 91 with or without Wire Guard No. WG-3.

For Louvered Lighting—Use

Concentric Louver No. FM-505-C.



No. I-505-5 Recessed in Ceiling

COMBINATION NO. I-505-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No I-505.

Hinged Ceiling Roundel No. 3-B.

Standard Quantity—1

Weight, Approx. 25 lbs.

Retail Price, Each.....\$30.00

CodeIFIOFIFO

Ceiling Space Required:

Space Above Ceiling Line—15 inches.

Opening to be Cut in Ceiling, Circular—Diam., 17¼ inches.

Additional Equipment—for use with No. I-505-4.

For Plaster Ceiling—Use Plaster Ring No. 3-B.

For Protection of Roundel—Use Wire Guard No. WG-3.

COMBINATION NO. I-505-5

(Hinged Concentric Louver Installation)

Consists of:

Permaflector No. I-505.

Hinged Concentric Louver No. 3-B.

Standard Quantity—1

Weight, Approx. 22 lbs.

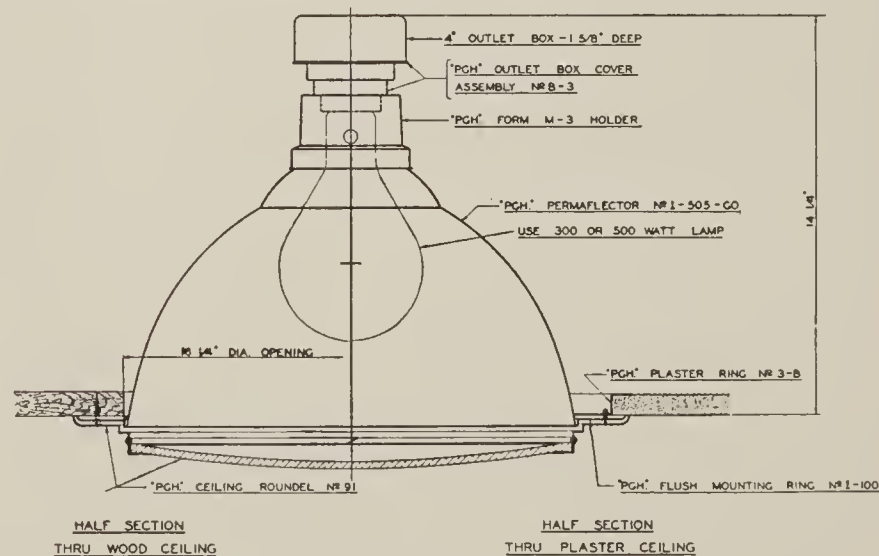
Retail Price, Each.....\$25.75

CodeIFIOFIFI

Ceiling Space Required: Same as for No. I-505-4.

Additional Equipment—for use with No. I-505-5.

For Plaster Ceiling—Use Plaster Ring No. 3-B.



No. I-505-2 Recessed in Ceiling
with Ceiling Roundel No. 91



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. I-505 SERIES

FOR INDUSTRIAL LIGHTING

To provide a metallic protective enclosure for Permaflector No. I-505-GO, there is available this series of units for interiors such as industrial high bays, power houses, gymnasiums, and similar interiors where reflector enclosure

seems desirable. These units are available as listed below.

Spacings on Centers:

For uniform illumination, should not exceed two-thirds of the height of bottom of reflector above work plane.

PERMAFLECTOR NO. I-505-S



No. I-505-S

(Sprayed and Baked Aluminum Finish)

Consists of:

Permaflector No. I-505-GO.
Spun Aluminum Housing.
Removable Reflector Seating Ring.
Ventilated Porcelain Mogul Socket with female cap — for attaching to standard 1/2" conduit stem.
Also available for 3/4" conduit stem.

Lamp Size — 500 watt PS-40, 300 watt PS-35.

Mercury Lamp Size: 400 watt T-16, Clear, Mogul Base, Type H-1.
Standard Quantity—1
Retail Price, each\$22.50
Weight, Approx. 40 lbs.
Code.....IFIHUNLUM

PERMAFLECTOR NO. I-505-L



No. I-505-L

Same as Permaflector No. I-505-S except equipped with removable Concentric Louver No. RV-505-S for concealment of light source, when required.

Standard Quantity—1
Retail Price, each\$25.15
Weight, Approx. 42 lbs.
Code.....IFIHUNEL

PERMAFLECTOR NO. I-505-G



No. I-505-G

Same as Permaflector No. I-505-S except equipped with Hinged Wire Guard No. WG-33 for use where protection of lamps and Permaflector is required, as in gymnasiums, indoor tennis courts, etc.

Standard Quantity—1
Weight, Approx. 40 lbs.
Retail Price, each\$24.75
CodeIFIHUNG

PERMAFLECTOR NO. I-505-LG



No. I-505-LG

Same as Permaflector No. I-505-S except equipped with removable Concentric Louver No. RV-505-S and Hinged Wire Guard No. WG-33.

Standard Quantity—1
Weight, Approx. 42 lbs.
Retail Price, each\$27.40
CodeIFIHULG

PERMAFLECTOR NO. I-505-N

To provide extra support and protection for the Permaflector without the use of a complete housing, we offer this Permaflector incorporating the retaining-ring arrangement. This unit is quickly installed, ready for service, by merely connecting wiring and attaching to a conduit stem.

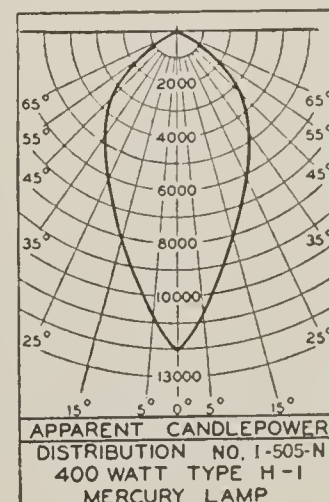
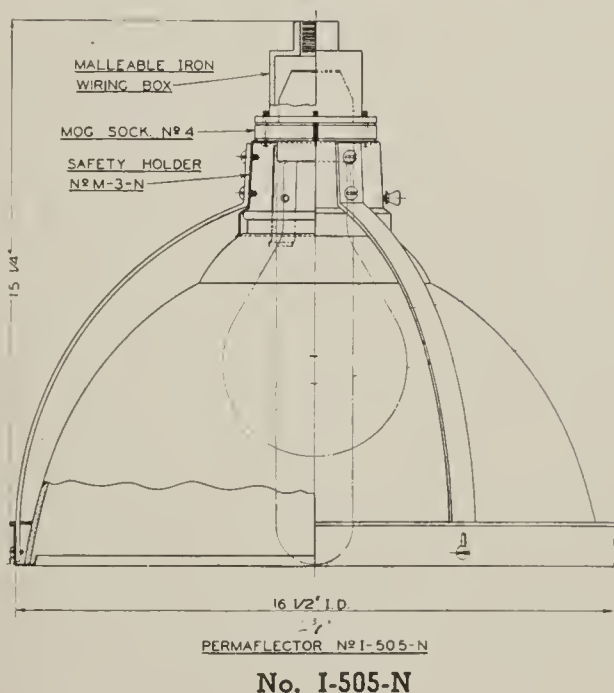
Consists of:

Permaflector No. I-505-GO.
Mogul Socket No. 4.
Safety Holder No. M-3-N.
3—Steel Straps.
Spun Steel Retaining Ring.
Box No. KO-19 1/2—for attaching to 1/2" conduit stem.
KO-19 3/4 available for attaching to 3/4" conduit stem.

Lamp Size—500 watt PS-40 or 300 watt PS-35.
Height Overall—15 1/4 inches.
Standard Quantity—1
Retail Price, each\$21.60
Weight, Approx. 22 lbs.
CodeIFIHUNEN

MERCURY LAMP INSTALLATIONS

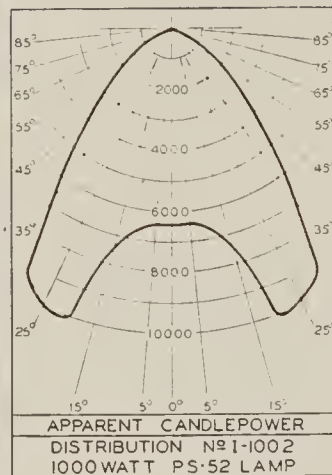
Permaflector No. I-505 Series may be installed with 400 watt (Type H-1) Mercury Lamps by using a special auxiliary ballast for each lamp. This ballast (one for each 400 watt lamp) may be mounted near lamp or grouped in one or more banks located some distance away. These ballasts are not supplied but are available from any electrical wholesaler.



PERMAFLECTOR NO. I-1002 SERIES



No. I-1002-B



Application—For high bay industrial lighting where the lighting equipment is located 20 ft. or more above the floor and exceptional concentration is required. Very effective for lighting through skylights as in art galleries, bank lobbies and similar applications. Also a splendid reflector for service in direct lighting ornamental lanterns.

Spacing on Centers:

For uniform illumination, should not exceed the height of bottom of reflector above work plane.

Dimensions:

Height Permaflexor No. I-1000-GO—8 $\frac{1}{8}$ inches.
Bottom Opening Circular—Diameter, 16 inches.

Lamp Size: 1000 Watt or 750 Watt PS-52.

COMBINATION NO. I-1002-B

Consists of:

Permaflexor No. I-1000-GO.
Porcelain Mogul Socket No. 4.
Holder No. 15-VB.
Box No. KO-19- $\frac{1}{2}$ —for attaching to $\frac{1}{2}$ inch conduit stem.
Box No. KO-19- $\frac{3}{4}$ —for attaching to $\frac{3}{4}$ inch conduit stem available on request.

Standard Quantity—1

Weight, Approx. 10 lbs.

Retail Price, each:

Permaflexor No. I-1002-B\$18.10
Permaflexor No. I-1000-GO\$13.45

Code:

Permaflexor No. I-1002ITHOTUB
Permaflexor No. I-1000-GOITHOSANGLA

COMBINATION NO. I-1002-2

(For Recessed Installation)

Consists of:

Permaflexor No. I-1002-B.
Flush Mounting Ring No. I-1005.

Standard Quantity—1

Weight, Approx. 11 lbs.

Retail Price, each\$20.20

CodeITHOTUTU

Ceiling Space Required:

Space Above Ceiling Line—16 $\frac{1}{8}$ inches.
Opening to be Cut in Ceiling, Circular—Diam., 16 $\frac{1}{4}$ inches.

Additional Equipment—for use with No. I-1002-2.

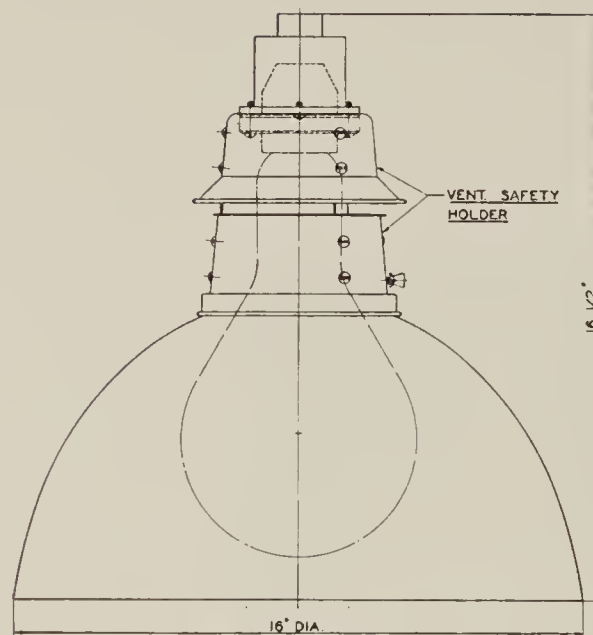
For Plaster Ceiling—Use Plaster Ring No. 3-B.

For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 91 with or without Wire Guard No. WG-3.

For Louvered Lighting—Use

Concentric Louver No. FM-505-C.



No. I-1002-B

COMBINATION NO. I-1002-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflexor No. I-1002-B.
Hinged Ceiling Roundel No. 3-B.

Standard Quantity—1

Weight, Approx. 24 lbs.

Retail Price, each\$33.10

CodeITHOTUFO

Ceiling Space Required:

Space Above Ceiling Line—16 $\frac{3}{4}$ inches.
Opening to be Cut in Ceiling, Circular—Diam., 17 $\frac{1}{4}$ inches.

Additional Equipment—for use with No. I-1002-4.

For Plaster Ceiling—Use Plaster Ring No. 3-B.

For Protection of Roundel—Use Wire Guard No. WG-3.

COMBINATION NO. I-1002-5

(Hinged Concentric Louver Installation)

Consists of:

Permaflexor No. I-1002-B.
Hinged Concentric Louver No. 3-B.

Standard Quantity—1

Weight, Approx. 20 lbs.

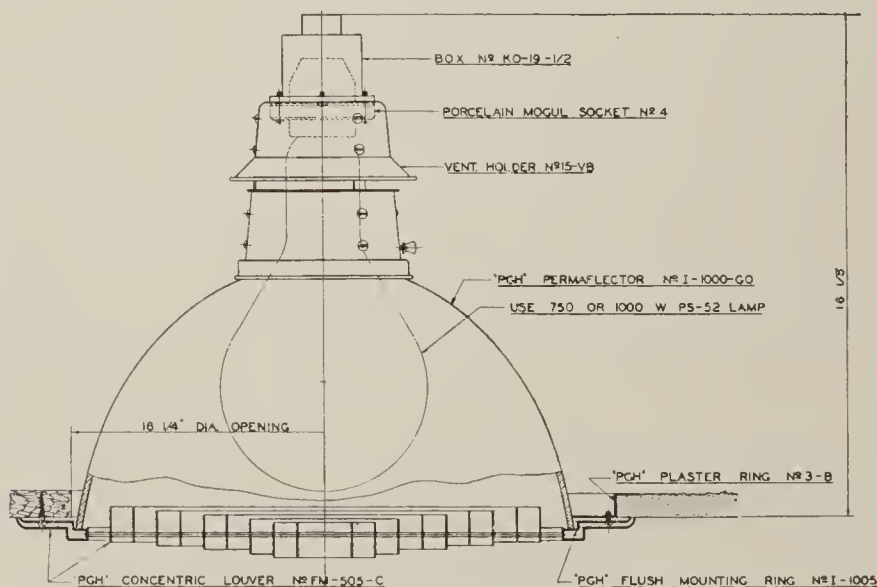
Retail Price, each\$28.85

CodeITHOTUF

Ceiling Space Required: Same as for No. I-1002-4.

Additional Equipment—for use with No. I-1002-5.

For Plaster Ceiling—Use Plaster Ring No. 3-B.

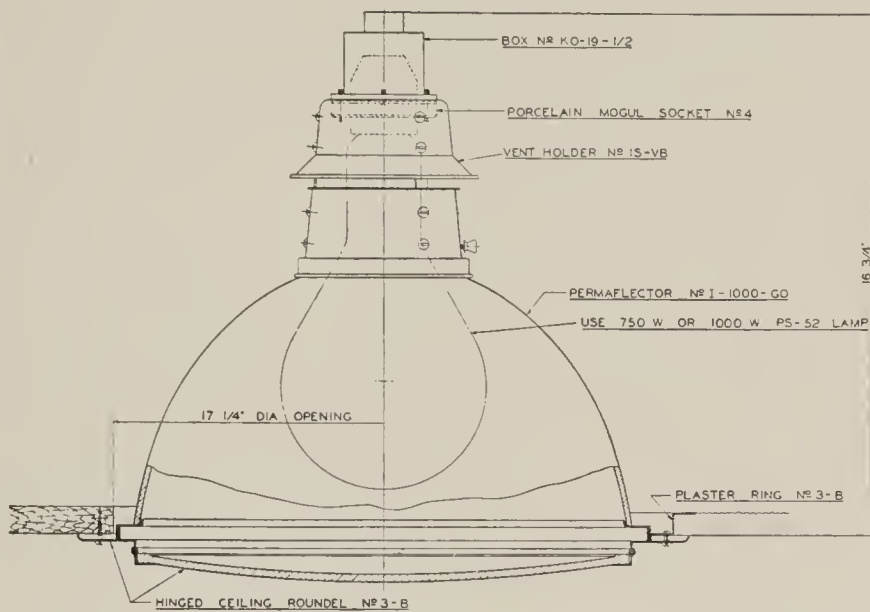


No. I-1002-2 Recessed in Ceiling and Louvered.

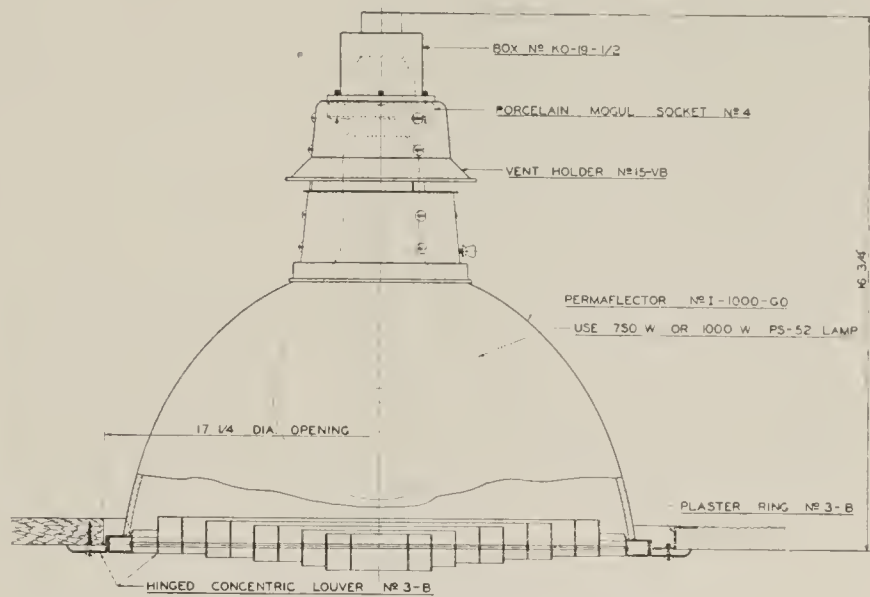


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. I-1002 SERIES



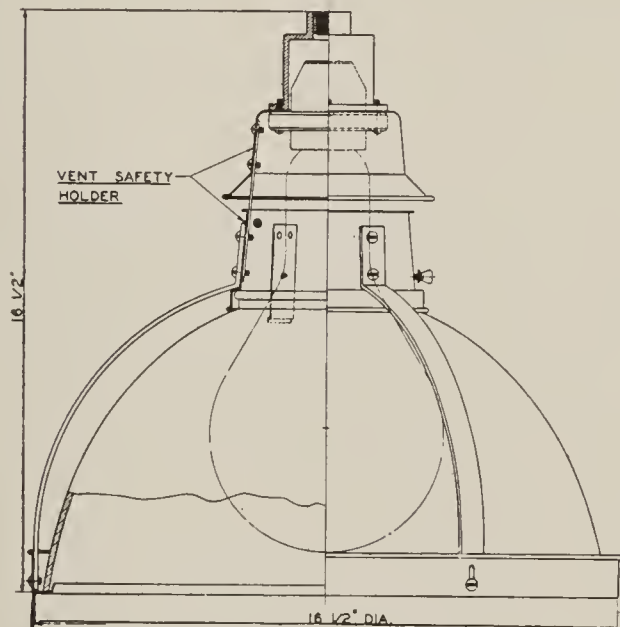
No. I-1002-4 Recessed in Ceiling



No. I-1002-5 Recessed in Ceiling

PERMAFLECTOR NO. I-1002-N

FOR INDUSTRIAL LIGHTING



No. I-1002-N

To provide extra support and protection for the Permaflector without the use of a complete housing, we offer this Permaflector incorporating the retaining-ring arrangement. This unit is quickly installed, ready for service, by merely connecting wiring and attaching to a conduit stem.

Consists of:

Permaflector No. I-1000-GO.

Mogul Socket No. 4.

Safety Holder No. 15-VN.

3—Steel Straps.

Spun Steel Retaining Ring.

Box No. KO-19-1/2—for attaching to 1/2" conduit stem. KO-19-3/4 available for attaching to 3/4" conduit stem.

Lamp Size: 1000 Watt or 750 Watt PS-52.

Height Overall—16 1/2 inches.

Standard Quantity—1

Retail Price, each

Weight, Approx. 22 lbs.

\$20.50

Code

ITHOTUEN



Indoor Athletic Pavilion



Keystone National Bank

Pittsburgh, Pa.

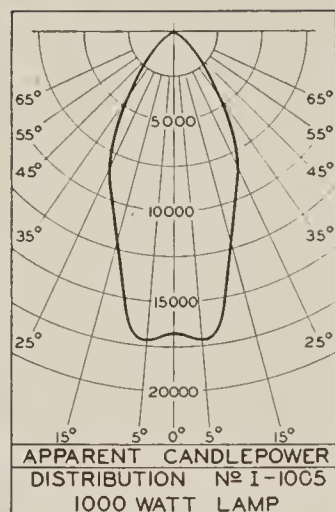
PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA



PERMAFLECTOR NO. I-1005 SERIES



No. I-1005-B



Application—For high bay industrial lighting where the lighting equipment is located 25 ft. or more above the floor and exceptional concentration is required. Very effective for lighting through skylights as in art galleries, bank lobbies and similar applications. Also a splendid reflector for service in direct lighting ornamental lanterns.

Spacings on Centers:

For uniform illumination, should not exceed two-thirds the height of bottom of reflector above work plane.

Dimensions:

Height Permaflector No. I-1005-GO— $8\frac{1}{8}$ inches.

Bottom Opening Circular—Diameter, 16 inches.

Lamp Size: 1000 Watt or 750 Watt PS-52.

PERMAFLECTOR NO. I-1005-A

Consists of:

Permaflector No. I-1005-GO.

Mogul Socket No. 4.

Holder No. 14-B.

4" Outlet Box, $2\frac{1}{8}$ inches deep.

Standard Quantity—1

Weight, Approx. 10 lbs.

Retail Price, Each:

Permaflector No. I-1005-A.....\$16.75

Permaflector No. I-1005-GO (Glass Only).....\$12.00

Code:

Permaflector No. I-1005-A.....ITHOFI

Permaflector No. I-1005-GO.....ITHOSFIGLA

PERMAFLECTOR NO. I-1005-B

Consists of:

Permaflector No. I-1005-GO.

Porcelain Mogul Socket No. 4.

Holder No. 14-B.

Box No. KO-19- $\frac{1}{2}$ —for attaching to $\frac{1}{2}$ inch conduit stem.

(KO-19- $\frac{3}{4}$ —available for attaching $\frac{3}{4}$ inch conduit stem.)

Standard Quantity—1

Weight, Approx. 11 lbs.

Retail Price, Each.....

\$16.75

Code.....

ITHOFIB

COMBINATION NO. I-1005-2

(For Recessed Installation)

Consists of:

Permaflector No. I-1005-A.

Flush Mounting Ring No. I-1005.

Standard Quantity—1

Weight, Approx. 12 lbs.

Retail Price, Each.....

\$18.85

Code.....

ITHOFITU

Ceiling Space Required:

Space Above Ceiling Line— $16\frac{1}{2}$ inches.

Opening to be Cut in Ceiling, Circular—Diam., $16\frac{1}{4}$ inches.

Additional Equipment—for use with No. I-1005-2.

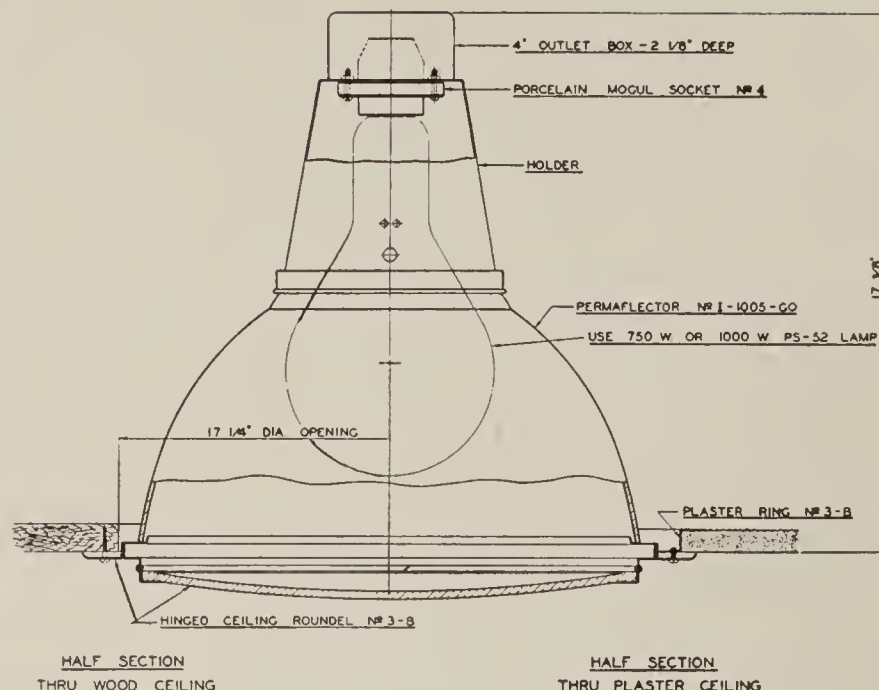
For Plaster Ceiling—Use Plaster Ring No. 3-B.

For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 91 with or without Wire Guard No. WG-3.

For Louvered Lighting—Use

Concentric Louver No. FM-505-C.



No. I-1005-4 Recessed in Ceiling

COMBINATION NO. I-1005-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. I-1005-A.

Hinged Ceiling Roundel No. 3-B.

Standard Quantity—1

Weight, Approx. 25 lbs.

Retail Price, Each.....

\$31.75

Code.....

ITHOFIFO

Ceiling Space Required:

Space Above Ceiling Line— $17\frac{1}{8}$ inches.

Opening to be Cut in Ceiling, Circular—Diam., $17\frac{1}{4}$ inches.

Additional Equipment—for use with No. I-1005-4.

For Plaster Ceiling—Use Plaster Ring No. 3-B.

For Protection of Roundel—Use Wire Guard No. WG-3.

COMBINATION NO. I-1005-5

(Hinged Concentric Louver Installation)

Consists of:

Permaflector No. I-1005-A.

Hinged Concentric Louver No. 3-B.

Standard Quantity—1

Weight, Approx. 21 lbs.

Retail Price, Each.....

\$27.50

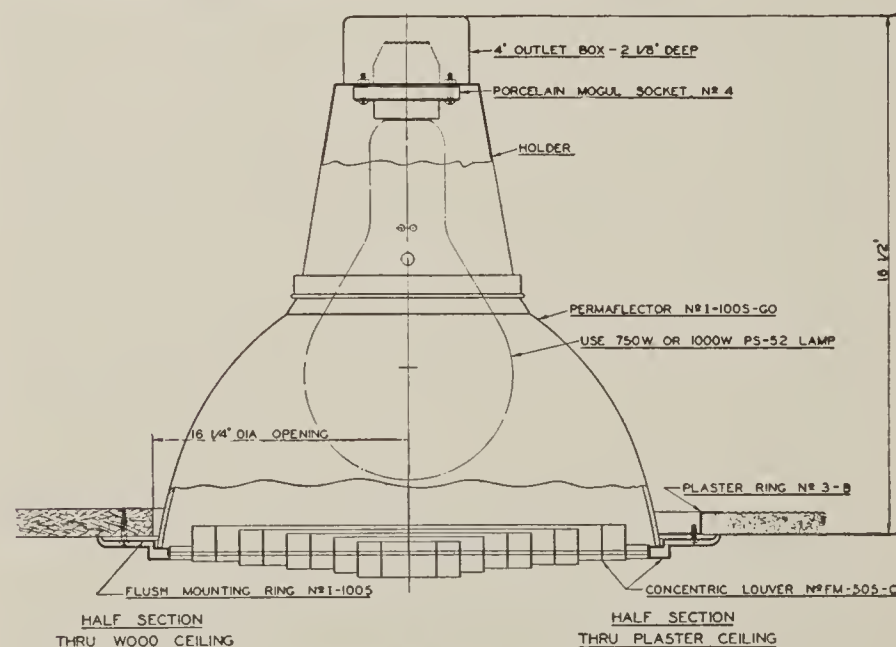
Code.....

ITHOFIFI

Ceiling Space Required: Same as for No. I-1005-4.

Additional Equipment—for use with No. I-1005-5.

For Plaster Ceiling—Use Plaster Ring No. 3-B.



No. I-1005-2 Recessed in Ceiling and Louvered

PERMAFLECTOR NO. I-1005 SERIES

FOR INDUSTRIAL LIGHTING

To provide a metallic protective enclosure for Permaflector No. I-1005-GO, there is available this series of units for interiors such as industrial high bays, power houses, gymnasiums and similar interiors where reflector enclosure seems desirable.

These units are available as listed below.

Spacings on Centers:

For uniform illumination, should not exceed two-thirds of the height of bottom of reflector above work plane.

PERMAFLECTOR NO. I-1005-S

(Sprayed and Baked Aluminum Finish)



No. I-1005-S

Consists of:

Permaflector No. I-1005-GO.
Spun Aluminum Housing.
Spun Aluminum Husk.
Removable Reflector Seating Ring.
Ventilated Porcelain Mogul Socket with female cap for attaching to standard 1/2" conduit stem. Also available for 3/4" conduit stem.

Lamp Size—1000 watt or 750 watt PS-52.
Weight, Approx. 35 lbs.
Code.....ITHOSFILUM

Standard Quantity—1
Retail Price, each\$24.00

PERMAFLECTOR NO. I-1005-L



No. I-1005-L

Same as Permaflector No. I-1005-S except equipped with removable Concentric Louver No. RV-505-S for concealment of light source, when required.

Standard Quantity—1
Retail Price, each\$26.65

Weight, Approx. 36 lbs.
Code.....ITHOSFEL

PERMAFLECTOR NO. I-1005-G



No. I-1005-G

Same as Permaflector No. I-1005-S except equipped with Hinged Wire Guard No. WG-33 for use where protection of lamp and Permaflector is required, as in Gyms, indoor tennis-courts, etc.

Standard Quantity—1
Weight, Approx. 36 lbs.
Retail Price, each\$26.25
CodeITHOSFIG

PERMAFLECTOR NO. I-1005-LG



No. I-1005-LG

Same as Permaflector No. I-1005-S except equipped with removable Concentric Louver No. RV-505-S and Hinged Wire Guard No. WG-33.

Standard Quantity—1
Weight, Approx. 37 lbs.
Retail Price, each\$28.90
CodeITHOSELG

PERMAFLECTOR NO. I-1005-N

To provide extra support and protection for the Permaflector without the use of a complete housing, we offer this Permaflector incorporating the retaining-ring arrangement. This unit is quickly installed, ready for service, by merely connecting wiring and attaching to a conduit stem.

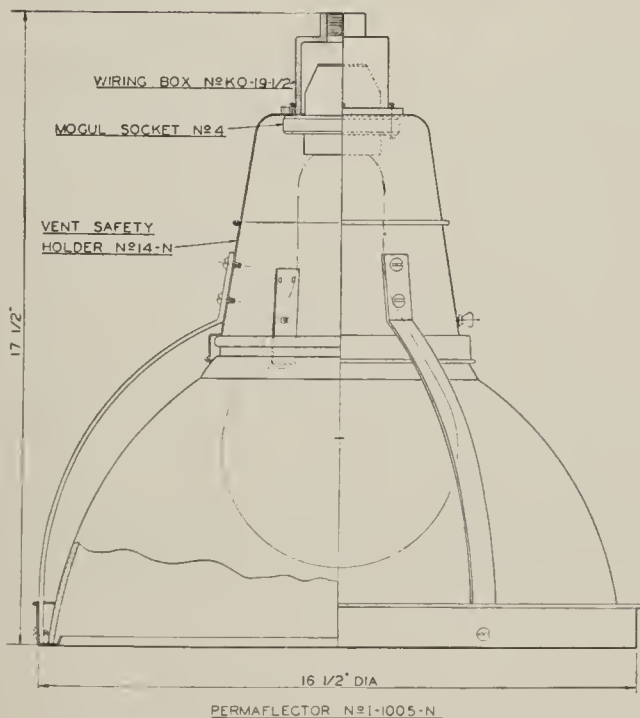
Consists of:

Permaflector No. I-1005-GO.
Mogul Socket No. 4.
Safety Holder No. 14-N.
3—Steel Straps.
Spun Steel Retaining Ring.
Box No. KO-19-1/2—for attaching to 1/2" conduit stem. KO-19-3/4 available for attaching to 3/4" conduit stem.

Lamp Size: 1000 Watt or 750 Watt PS-52.
Height Overall—17 1/2 inches.

Standard Quantity—1
Weight, Approx. 22 lbs.

Retail Price, each\$23.60
CodeITHOSFEN



HIGH BAY UNITS FOR MERCURY LAMPS

Mercury Vapor Lamps are often used in industrial high-bay lighting because of their high lumens-per-watt output. Permaflectors I-505, E-500 and E-530 Series, in which 400-watt Mercury Lamps may be installed, are ideal for industrial applications. Refer to the index for their page numbers.



PERMAFLECTOR INSTALLATIONS



Gillespie Galleries

Pittsburgh, Pa.



Joseph Horne Company

Mt. Lebanon, Pa.



A. S. Beck Shoe Company

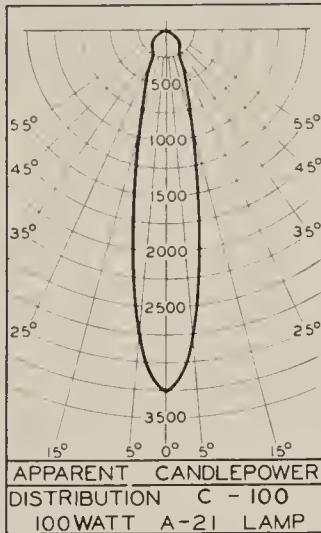


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. C-100 SERIES



No. C-100



Application — This is Permaflector used with Spot WS-100. May be set flush in ceiling and louvered for spot lighting effects. A good cove lighting reflector where narrow concentrated beam for long throw is required.

Spacings on Centers:

For uniform illumination, should not exceed $\frac{1}{3}$ the height of bottom of reflector above work plane.

Minimum Spacings: for

Mounting on Conduit No. 1—9 inches on centers.

Mounting on Knockout Strip No. KO-1—9 inches on centers.

Dimensions:

Height Permaflector No. C-100—5 inches.

Bottom Opening Circular—Diam., $8\frac{1}{8}$ inches.

Lamp Size—

60 Watt A-19; 75 Watt A-21; 100 Watt A-21.

PERMAFLECTOR NO. C-100

Standard Quantity—10

Weight, Approx. 12 lbs.

Retail Price, Each.....\$3.00

CodeSEEHUNDER

Additional Equipment—for use with No. C-100.

Holder:

For Grooved Porcelain Socket—Use

$2\frac{1}{4}$ " Form "SR" Holder for 60 Watt A-19 Lamp.

$2\frac{1}{4}$ " Form "SLR" Holder for 100 Watt A-21 Lamp.

For Porcelain Sockets No. 1 or No. KO-8—Use

$2\frac{1}{4}$ " Form "S" Holder for 60 Watt A-19 Lamp.

$2\frac{1}{4}$ " Form "SL" Holder for 75 or 100 Watt A-21 Lamp.

May Be Installed With: Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$ or B-1-4 with $2\frac{1}{4}$ " Form "S" or "SL" Holder.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1 with $2\frac{1}{4}$ " Form "S" or "SL" Holder.

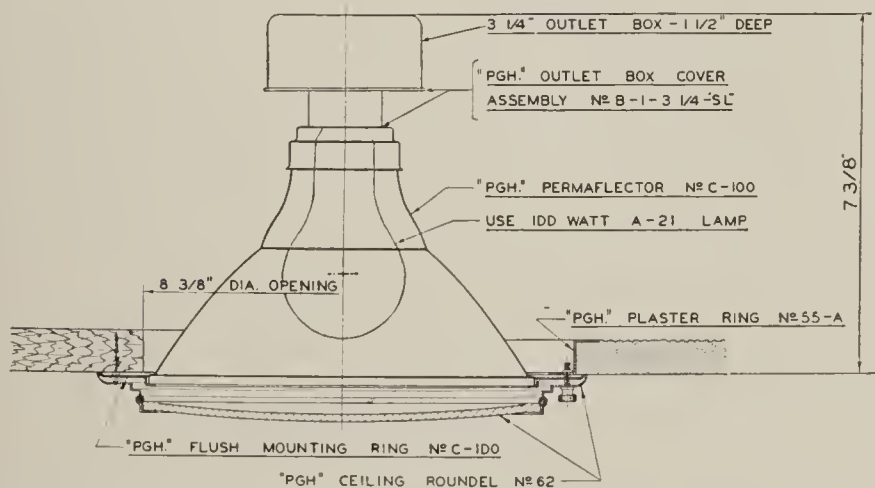
For Colored Lighting: Use

Color-Lite No. 6 or No. 6-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-55 for external mounting.

Concentric Louver No. EM-55-C for external mounting.



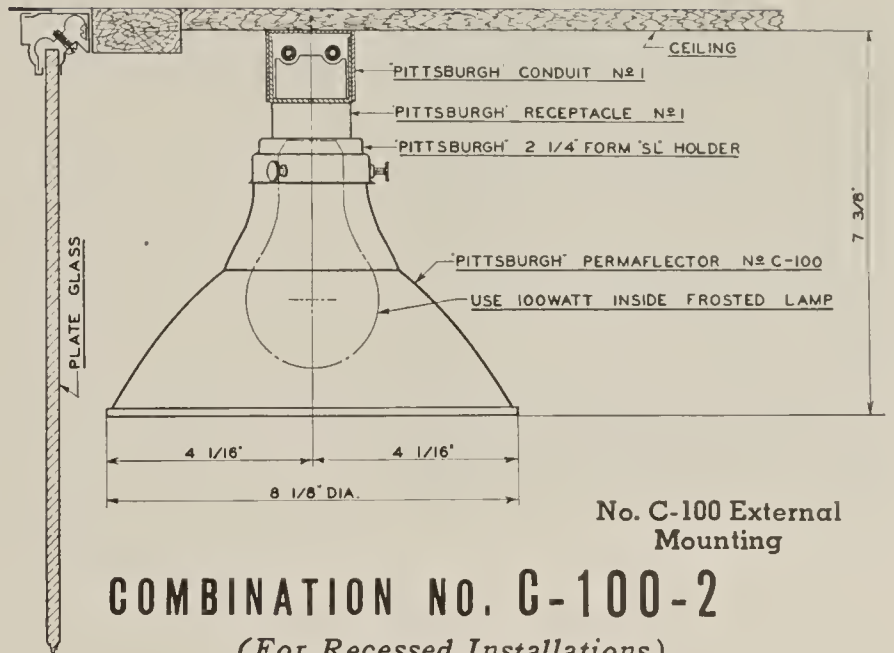
HALF SECTION

THRU WOOD CEILING

HALF SECTION

THRU PLASTER CEILING

No. C-100-2 Recessed in Ceiling with Ceiling Roundel No. 62



No. C-100 External Mounting

COMBINATION NO. C-100-2

(For Recessed Installations)

(Use 100 Watt A-21 Lamp)

Consists of:

Permaflector No. C-100.

Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$ -SL.

Flush Mounting Ring No. C-100.

Standard Quantity—10

Weight, Approx. 23 lbs.

Retail Price, Each.....\$4.12

CodeCEUTU

Ceiling Space Required:

Space Above Ceiling Line—7 $\frac{3}{8}$ inches.

Opening to be Cut in Ceiling, Circular—Diam., $8\frac{3}{8}$ inches.

Additional Equipment—for use with No. C-100-2.

For Plaster Ceiling—Use Plaster Ring No. 55-A.

For Colored Lighting—Use Color-Lite No. 61 or No. 61-DB.

For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 62 with or without Wire Guard No. WG-1.

For Louvered Lighting—Use

Parallel Louver No. FM-55.

Concentric Louver No. FM-55-C.

Egg Crate Louver No. FEC-100.

COMBINATION NO. C-100-4

(Hinged Ceiling Roundel Installation)

(Use 100 Watt A-21 Lamp)

Consists of:

Permaflector No. C-100.

Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$ -SL.

Hinged Ceiling Roundel No. 7-B.

Standard Quantity—10

Weight, Approx. 38 lbs.

Retail Price, Each.....\$7.45

CodeCEUFO

Ceiling Space Required:

Space Above Ceiling Line—7 $\frac{7}{8}$ inches.

Opening to be Cut in Ceiling, Circular—Diam., $9\frac{1}{4}$ inches.

Additional Equipment—for use with No. C-100-4.

For Plaster Ceiling—Use Plaster Ring No. 1-B.

For Protection of Roundel—Use Wire Guard No. WG-1.

COMBINATION NO. C-100-5

(Hinged Concentric Louver Installation)

(Use 100 Watt A-21 Lamp)

Consists of:

Permaflector No. C-100.

Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$ -SL.

Hinged Concentric Louver No. 7-B.

Standard Quantity—10

Weight, Approx. 31 lbs.

Application—Excellent for recessing in ceiling show window

Retail Price, Each.....\$7.45

CodeCEUFI

Ceiling Space Required—Same as for No. C-100-4.

Additional Equipment—for use with No. C-100-5.

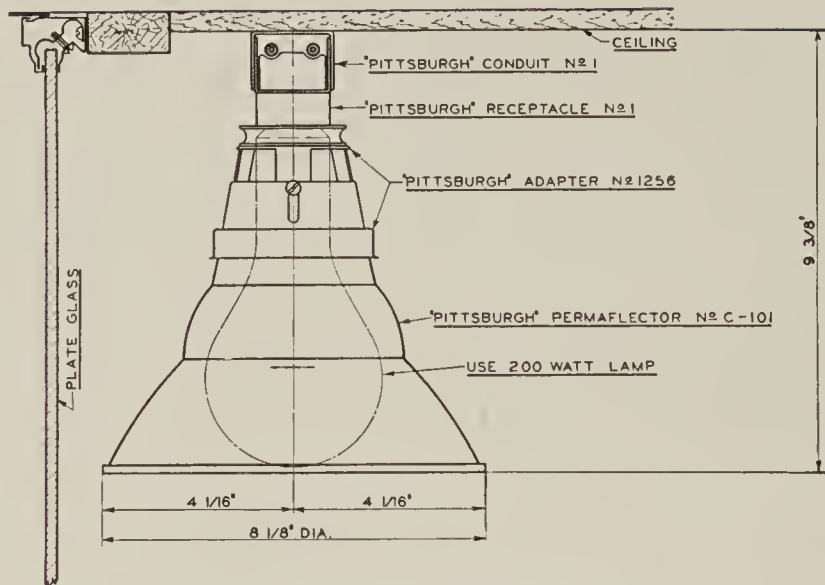
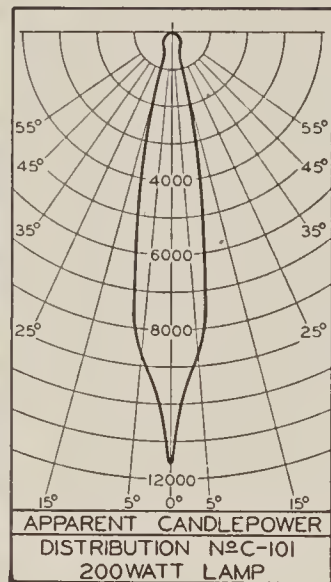
For Plaster Ceiling—Use Plaster Ring No. 1-B.



PERMAFLECTOR NO. C-101 SERIES



No. C-101-A



No. C-101-A External Mounting

Application—Excellent for recessing in ceiling of show window or store interior over displays requiring strong concentration of illumination. Used widely in jewelry stores.

C-101-GO is supplied with Floodlights Nos. FLC-103 and FLC-104.

Spacings on Centers:

For uniform illumination, should not exceed one-third the height of bottom of reflector above work plane.

Minimum Spacings: for

Mounting on Conduit No. 1—9 inches on centers.

Mounting on Knockout Strip No. KO-1—9 inches on centers.

Dimensions:

Height with Adapter No. 1256 Extended—7 $\frac{3}{8}$ inches.
Height with Adapter No. 1256 Compressed—6 $\frac{1}{8}$ inches.
Height Permaflector No. C-101-GO—5 $\frac{1}{8}$ inches.
Bottom Opening Circular—Diameter, 8 $\frac{3}{8}$ inches.

Lamp Size:

200 Watt PS-30, Adapter Extended.
150 Watt PS-25, Adapter Compressed.

PERMAFLECTOR NO. C-101-A

Consists of:

Permaflector No. C-101-GO and Adapter No. 1256.

Standard Quantity—10

Weight, Approx. 16 lbs.

Retail Price, Each.....\$3.75

CodeSEHUNODA

Additional Equipment—for use with No. C-101-A.

May Be Installed With:

Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$ or B-1-4.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1.

For Colored Lighting: Use

Color-Lite No. 6 or No. 6-DB for external mounting.

For Louvered Lighting: Use

Concentric Louver No. EM-55-C for external mounting.

PERMAFLECTOR NO. C-101-R

Consists of:

Permaflector No. C-101-GO and Adapter No. 1256-R for use where grooved porcelain sockets are installed.

Standard Quantity—10

Weight, Approx. 16 lbs.

Retail Price, Each.....\$3.75

CodeSEHUNODAR

Additional Equipment—for use with No. C-101-R.

For Colored Lighting—Same as for No. C-101-A.

For Louvered Lighting—Same as for No. C-101-A.

COMBINATION NO. C-101-2

(For Recessed Installation)

Consists of:

Permaflector No. C-101-A.

Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$.

Flush Mounting Ring No. C-100.

Standard Quantity—10

Weight, Approx. 26 lbs.

Retail Price, Each.....\$4.62

CodeSEHUNTU

Ceiling Space Required:

Space Above Ceiling Line—9 $\frac{1}{2}$ inches (Adapter Extended).

Opening to be Cut in Ceiling, Circular—Diam. 8 $\frac{3}{8}$ inches.

Additional Equipment—for use with No. C-101-2.

For Plaster Ceiling—Use Plaster Ring No. 55-A.

For Colored Lighting—Use Color-Lite No. 61 or No. 61-DB.

For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 62 with or without Wire Guard No. WG-1.

For Louvered Lighting—Use

Concentric Louver No. FM-55-C.

COMBINATION NO. C-101-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. C-101-A.

Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$.

Hinged Ceiling Roundel No. 7-B.

Standard Quantity—10

Weight, Approx. 41 lbs.

Retail Price, Each.....\$7.95

CodeSEHUNFO

Ceiling Space Required:

Space Above Ceiling Line—9 $\frac{7}{8}$ inches (Adapter Extended).

Opening to be Cut in Ceiling, Circular—Diam., 9 $\frac{3}{4}$ inches.

Additional Equipment—for use with No. C-101-4.

For Plaster Ceiling—Use Plaster Ring No. 1-B.

For Protection of Roundel—Use Wire Guard No. WG-1.

COMBINATION NO. C-101-5

(Hinged Concentric Louver Installation)

Consists of:

Permaflector No. C-101-A.

Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$.

Hinged Concentric Louver No. 7-B.

Standard Quantity—10

Weight, Approx. 34 lbs.

Retail Price, Each.....\$7.95

CodeSEHUNFI

Ceiling Space Required—Same as for No. C-101-4.

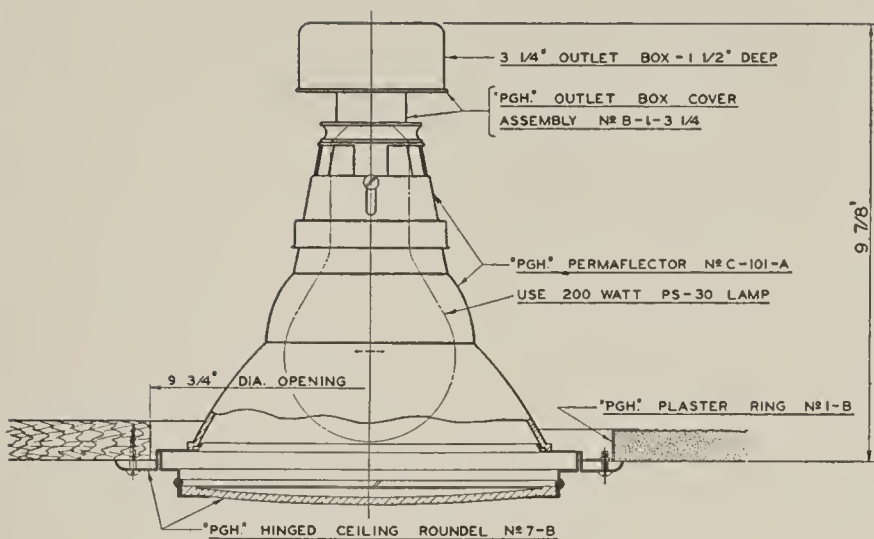
Additional Equipment—for use with No. C-101-5.

For Plaster Ceiling—Use Plaster Ring No. 1-B.



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

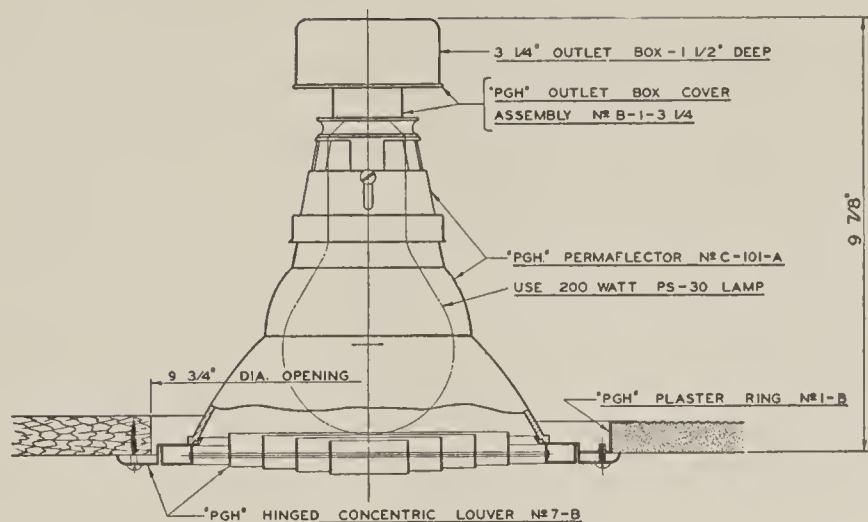
PERMAFLECTOR NO. C-101 SERIES



HALF SECTION
THRU WOOD CEILING

HALF SECTION
THRU PLASTER CEILING

No. C-101-4 Recessed in Ceiling



HALF SECTION
THRU WOOD CEILING

HALF SECTION
THRU PLASTER CEILING

No. C-101-5 Recessed in Ceiling

ENCLOSED COMBINATIONS

(For Recessed Installations)

(Use 200 Watt PS-30 Lamp)

Where mechanical protection of the recessed Permaflexor is necessary the addition of a spun aluminum housing ac-

complishes the object. We list and illustrate below our line of fully enclosed units for Permaflexor No. C-101-A.

COMBINATION NO. C-101-7

(With Hinged Ceiling Roundel)

Consists of:

- Permaflexor No. C-101-A.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Ceiling Roundel No. 7-B.

Standard Quantity—1

Weight, Approx. 11 lbs.

Retail Price, Each.....\$12.25

CodeSEHUNSET

Ceiling Space Required:

Space Above Ceiling Line—10 1/8 inches.

Opening to be Cut in Ceiling, Circular—Diam., 9 3/4 inches.

Additional Equipment—for use with No. C-101-7.

For Plaster Ceiling—Use Plaster Ring No. 1-B.

For Protection of Roundel—Use Wire Guard No. WG-1.

COMBINATION NO. C-101-8

(With Hinged Concentric Louver)

Consists of:

- Permaflexor No. C-101-A.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Concentric Louver No. 7-B.

Standard Quantity—1

Weight, Approx. 10 lbs.

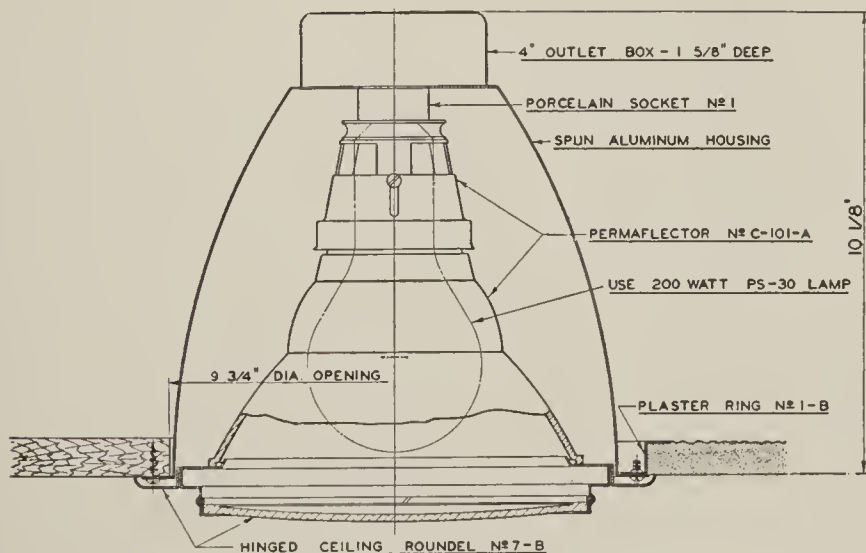
Retail Price, Each.....\$12.25

CodeSEHUNAT

Ceiling Space Required—Same as for No. C-101-7.

Additional Equipment—for use with No. C-101-8.

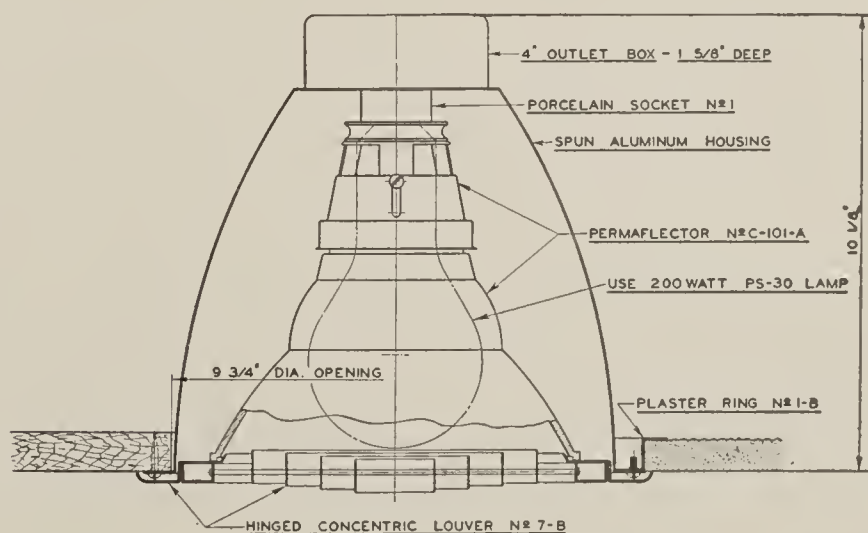
For Plaster Ceiling—Use Plaster Ring No. 1-B.



HALF SECTION
THRU WOOD CEILING

HALF SECTION
THRU PLASTER CEILING

No. C-101-7 Recessed in Ceiling



HALF SECTION
THRU WOOD CEILING

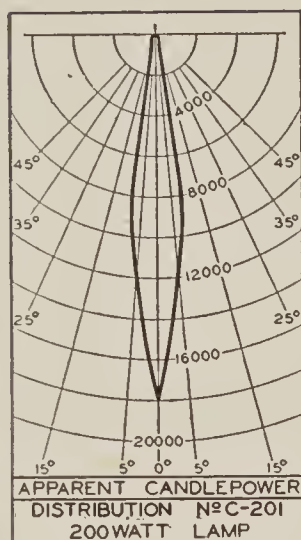
HALF SECTION
THRU PLASTER CEILING

No. C-101-8 Recessed in Ceiling

PERMAFLECTOR NO. C-201 SERIES



No. C-201-A



Application—This is Permaflector used with Spot WS-200. Excellent for recessing in ceiling with flush mounting ring and concentric louver in show window or store interior over displays requiring strong illumination. Very good for cove lighting where a narrow beam for long throw is required. Widely used for lighting through skylights in art galleries and other public buildings.

Spacings on Centers:

For uniform illumination, should not exceed one-third the height of bottom of reflector above work plane.

Minimum Spacings: for

Mounting on Conduit No. 1—10½ inches on centers.

Mounting on Knockout Strip No. KO-1—12 inches on centers.

Dimensions:

Height with Adapter No. 1256 Extended—9¼ inches.

Height with Adapter No. 1256 Compressed—8⅞ inches.

Height Permaflector No. C-201-GO—7 inches.

Bottom Opening Circular—Diameter, 10 inches.

Lamp Size—

200 Watt PS-30, Adapter Extended.

150 Watt PS-25, Adapter Compressed.

PERMAFLECTOR NO. C-201-A

Consists of:

Permaflector No. C-201-GO and Adapter No. 1256.

Standard Quantity—9

Weight, Approx. 22 lbs.

Retail Price, Each.....\$4.50

CodeSETUWONAYE

Additional Equipment—for use with No. C-201-A.

May Be Installed With:

Outlet Box Cover Assembly No. B-1-3¼ or B-1-4.

May Be Mounted On:

Conduit No. 1 or Knockout Strip No. KO-1.

For Colored Lighting: Use

Color-Lite No. 2 or No. 2-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EM-54 for external mounting.

Concentric Louver No. EM-54-C for external mounting.

PERMAFLECTOR NO. C-201-R

Consists of:

Permaflector No. C-201-GO and Adapter No. 1256-R for use where grooved porcelain sockets are installed.

Standard Quantity—9

Weight, Approx. 22 lbs.

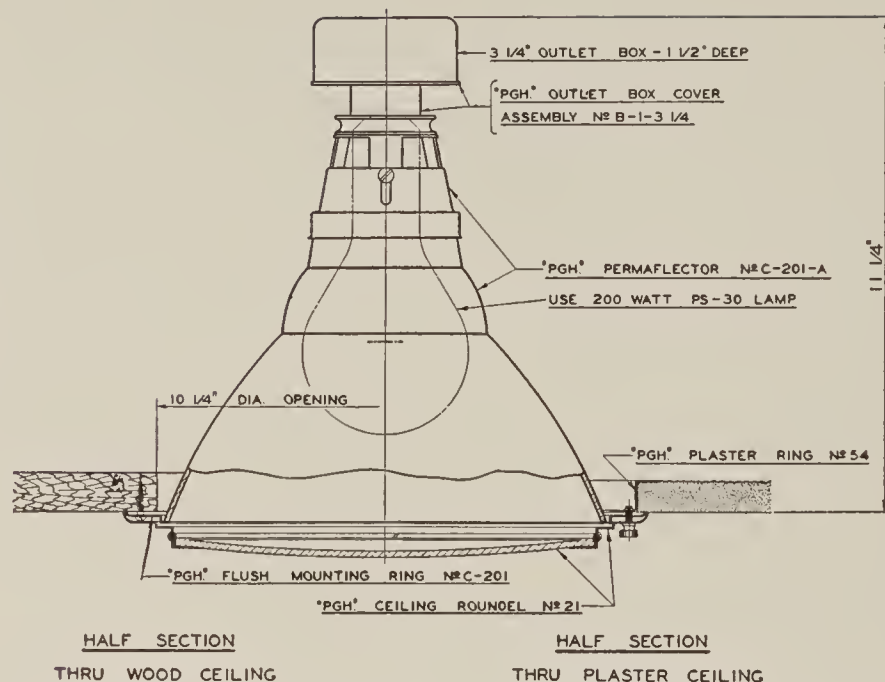
Retail Price, Each.....\$4.50

CodeSETUONER

Additional Equipment—for use with No. C-201-R.

For Colored Lighting—Same as for No. C-201-A.

For Louvered Lighting—Same as for No. C-201-A.



No. C-201-2 Recessed in Ceiling with Ceiling Roundel No. 21

COMBINATION NO. C-201-2

(For Recessed Installation)

Consists of:

Permaflector No. C-201-A.

Outlet Box Cover Assembly No. B-1-3¼.

Flush Mounting Ring No. C-201.

Standard Quantity—9

Weight, Approx. 30 lbs.

Retail Price, Each.....\$5.60

CodeSETWONTU

Ceiling Space Required:

Space Above Ceiling Line—11¼ inches (Adapter Extended).

Opening to be Cut in Ceiling, Circular—Diam. 10¼ inches.

Additional Equipment—for use with No. C-201-2.

For Plaster Ceiling—Use Plaster Ring No. 54.

For Colored Lighting—Use Color-Lite No. 21 or No. 21-DB.

For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 21 with or without Wire Guard No. WG-6.

For Louvered Lighting: Use

Parallel Louver No. FM-54.

Concentric Louver No. FM-54-C.

Egg Crate Louver No. FEC-200.

COMBINATION NO. C-201-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. C-201-A.

Outlet Box Cover Assembly No. B-1-3¼.

Hinged Ceiling Roundel No. B.

Standard Quantity—9

Weight, Approx. 56 lbs.

Retail Price, Each.....\$9.95

CodeSETWONFO

Ceiling Space Required:

Space Above Ceiling Line—11¼ inches (Adapter Extended).

Opening to be Cut in Ceiling, Circular—Diam., 12½ inches.

Additional Equipment—for use with No. C-201-4.

For Plaster Ceiling—Use Plaster Ring No. 8-B.

For Protection of Roundel—Use Wire Guard No. WG-8.

COMBINATION NO. C-201-5

(Hinged Concentric Louver Installation)

Consists of:

Permaflector No. C-201-A.

Outlet Box Cover Assembly No. B-1-3¼.

Hinged Concentric Louver No. 8-B.

Standard Quantity—9

Weight, Approx. 44 lbs.

Retail Price, Each.....\$9.45

CodeSETWONFI

Ceiling Space Required—Same as for No. C-201-4.

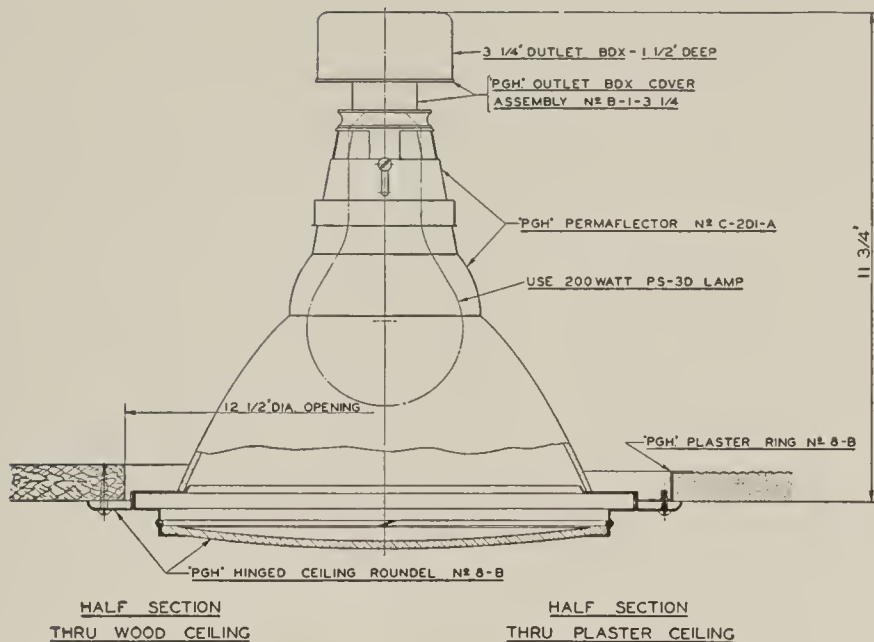
Additional Equipment—for use with No. C-201-5.

For Plaster Ceiling—Use Plaster Ring No. 8-B.

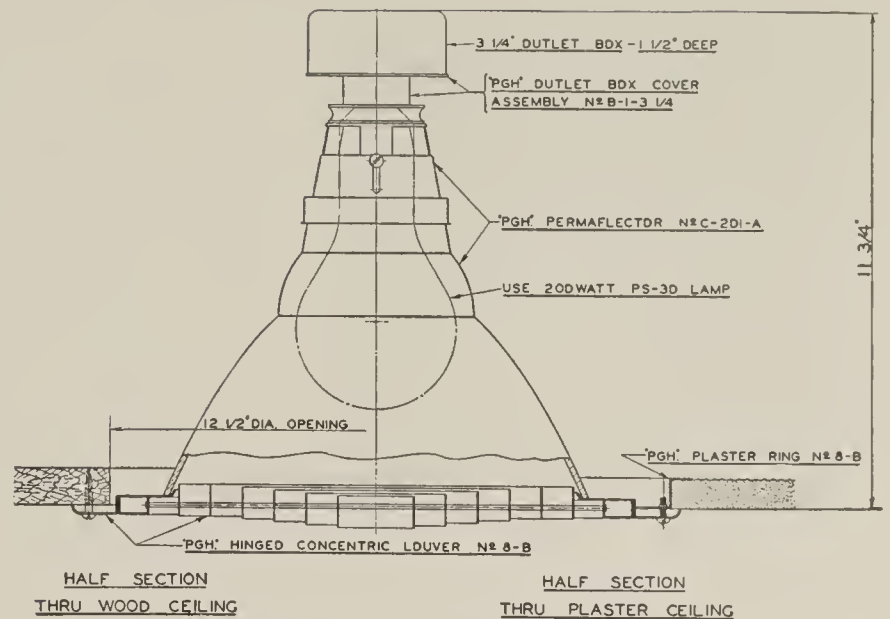


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. C-201 SERIES



No. C-201-4 Recessed in Ceiling



No. C-201-5 Recessed in Ceiling

ENCLOSED COMBINATIONS

(For Recessed Installations)

(Use 200 Watt PS-30 Lamp)

Where mechanical protection of the recessed Permaфлектор is necessary, the addition of a spun aluminum housing accom-

plishes the object. We list and illustrate below our line of fully enclosed units for Permaфлектор No. C-201-A.

COMBINATION NO. C-201-7

(With Hinged Ceiling Roundel)

Consists of:

- Permaфлектор No. C-201-A.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Ceiling Roundel No. 8-B.

Standard Quantity—1

Weight, Approx. 11 lbs.

Retail Price, Each.....\$17.00

CodeSETWONSET

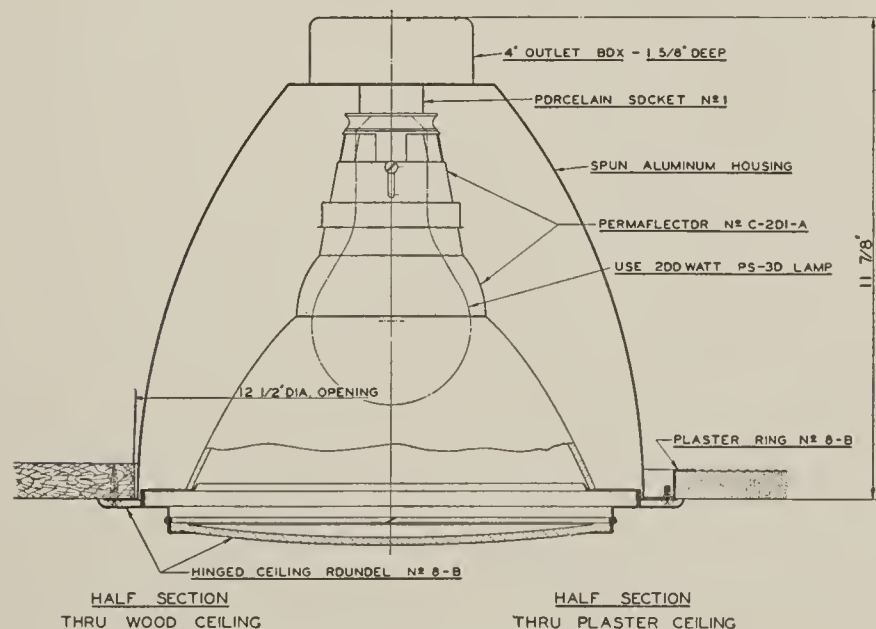
Ceiling Space Required:

- Space Above Ceiling Line—11 7/8 inches.
- Opening to be Cut in Ceiling, Circular—Diam., 12 1/2 inches.

Additional Equipment—for use with No. C-201-7.

For Plaster Ceiling—Use Plaster Ring No. 8-B.

For Protection of Roundel—Use Wire Guard No. WG-8.



No. C-201-7 Recessed in Ceiling

COMBINATION NO. C-201-8

(With Hinged Concentric Louver)

Consists of:

- Permaфлектор No. C-201-A.
- Spun Aluminum Housing.
- Porcelain Socket No. 1.
- 4" Octagonal Outlet Box, 1 5/8 inches deep.
- Hinged Concentric Louver No. 8-B.

Standard Quantity—1

Weight, Approx. 10 lbs.

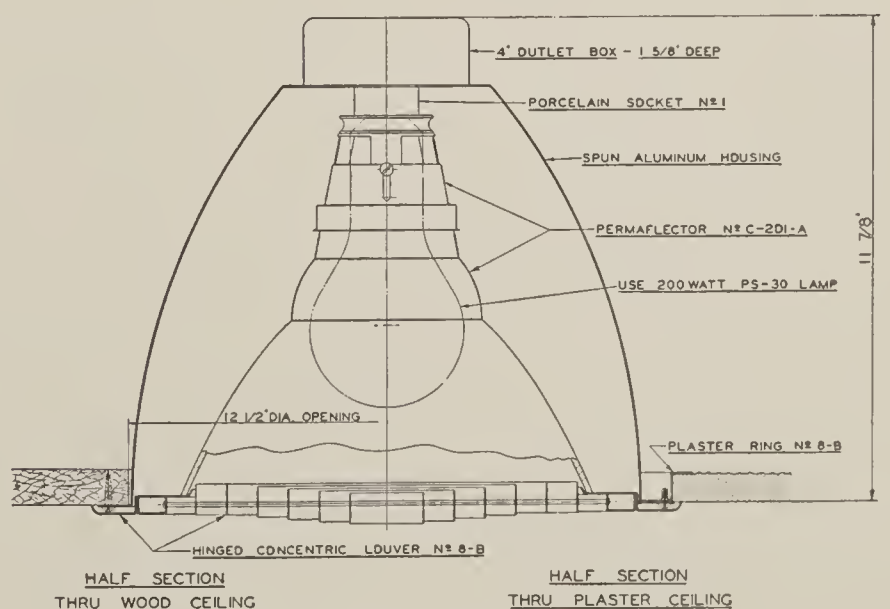
Retail Price, Each.....\$16.50

CodeSETWONAT

Ceiling Space Required—Same as for No. C-201-7.

Additional Equipment—for use with No. C-201-8.

For Plaster Ceiling—Use Plaster Ring No. 8-B.



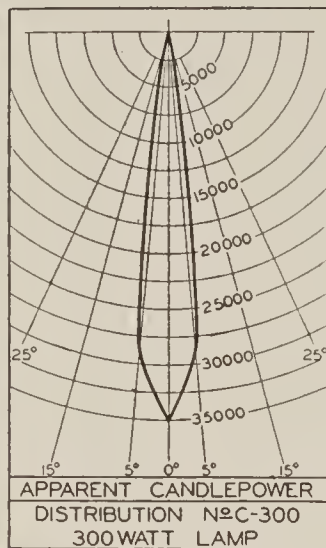
No. C-201-8 Recessed in Ceiling



PERMAFLECTOR NO. C-300 SERIES



No. C-300-A



Application—This is Permalector used with Spot WS-300. A good unit for recessing in the ceiling with flush mounting ring and concentric louver or hinged ceiling roundel. Delivers intense illumination over limited area. Excellent for lighting through skylights in art galleries and other public buildings.

Spacings on Centers:

For uniform illumination, should not exceed one-third the height of bottom of reflector above work plane.

Lamp Size—300 Watt PS-35.

Dimensions:

Height Permalector No. C-300-GO—6 $\frac{3}{4}$ inches.
Bottom Opening Circular—Diameter, 11 $\frac{1}{2}$ inches.

PERMAFLECTOR NO. C-300-A

Consists of:

Permalector No. C-300-GO.
Outlet Box Cover Assembly No. B-3.
Holder No. 12-A.

Attaches to any standard 4" Outlet Box, 1 $\frac{5}{8}$ inches deep.

Standard Quantity—1

Weight, Approx. 5 $\frac{1}{2}$ lbs.

Retail Price, Each:

Permalector No. C-300-A.....\$10.00
Permalector No. C-300-GO (Glass Only).....\$6.75

Code: Permalector No. C-300.....SETRHUNA

Permalector No. C-300-GO.....SEETREEHUN

Additional Equipment—for use with No. C-300-A.

May Be Mounted On:

Conduit No. 6, in which case discard outlet box cover.

For Colored Lighting: Use

Color-Lite No. 10 or No. 10-DB for external mounting.

For Louvered Lighting: Use

Parallel Louver No. EME-500 for external mounting.

Concentric Louver No. EME-500-C for external mounting.

PERMAFLECTOR NO. C-300-B

Consists of:

Permalector No. C-300-GO.
Porcelain Mogul Socket No. 4.
Holder No. 12-A.

Box No. KO-11—For attaching to $\frac{1}{2}$ " conduit stem.

Standard Quantity—1

Weight, Approx. 5 $\frac{1}{2}$ lbs.

Retail Price, Each.....\$10.00

Code.....SETRHUNBI

Additional Equipment—for use with No. C-300-B.

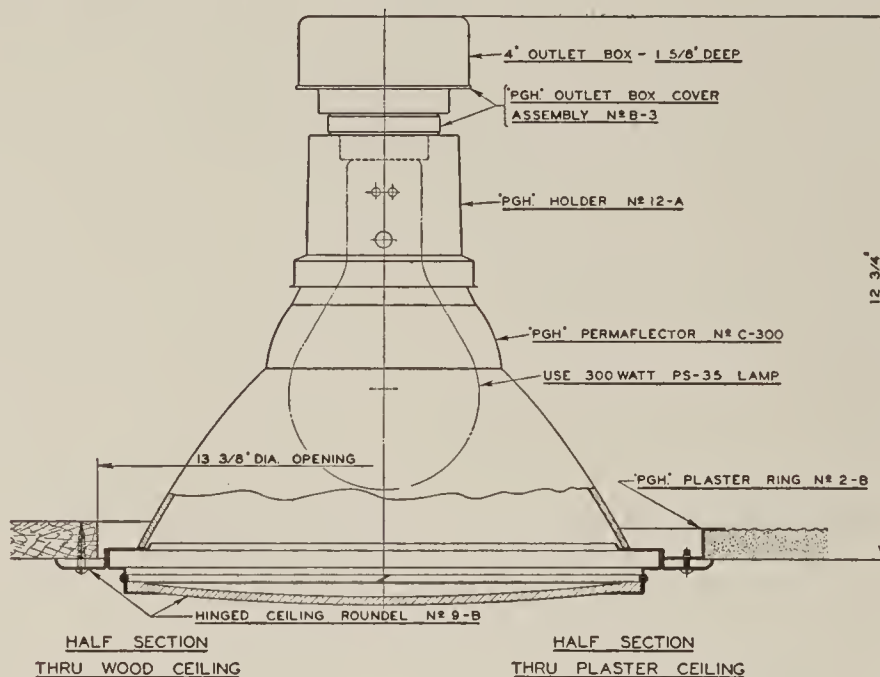
For Colored Lighting—Same as for No. C-300-A.

For Louvered Lighting—Same as for No. C-300-A.

THREE-LIGHT EQUIPMENT

The substitution of Three-Light Mogul Socket No. 5 for Standard Mogul Socket No. 4, converts the following for use with: 150-200-350 Watt PS-35 Three-Light Lamp.

Catalog No.	Std. Quan.	Retail Price Each	Code
Permalector No. C-300-A, 3-Light	1	\$10.25	SETRUNTRA
Permalector No. C-300-B, 3-Light	1	10.25	SETRUNTREB
Combination No. C-300-2, 3-Light	1	11.45	SETRUNTURE
Combination No. C-300-4, 3-Light	1	18.75	SETRUNFORE
Combination No. C-300-5, 3-Light	1	15.75	SETRUNFIRE



C-300-4 Recessed in Ceiling

COMBINATION NO. C-300-2

(For Recessed Installation)

Consists of:

Permalector No. C-300-A.
Flush Mounting Ring No. C-300.

Standard Quantity—1

Weight, Approx. 6 lbs.

Retail Price, Each.....\$11.20

Code.....SETRUNTU

Ceiling Space Required:

Space Above Ceiling Line—12 $\frac{3}{8}$ inches.

Opening to be Cut in Ceiling, Circular—Diam., 11 $\frac{1}{4}$ inches.

Additional Equipment—for use with No. C-300-2.

For Plaster Ceiling—Use Plaster Ring No. 555.

For Colored Lighting—Use Color-Lite No. 81.

For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 81 with or without Wire Guard No. WG-2.

For Louvered Lighting—Use

Parallel Louver No. FME-500.

Concentric Louver No. FME-500-C.

Egg Crate Louver No. FEC-300.

COMBINATION NO. C-300-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permalector No. C-300-A.
Hinged Ceiling Roundel No. 9-B.

Standard Quantity—1

Weight, Approx. 15 lbs.

Retail Price, Each.....\$18.50

Code.....SETRUNFO

Ceiling Space Required:

Space Above Ceiling Line—12 $\frac{3}{4}$ inches.

Opening to be Cut in Ceiling, Circular—Diam., 13 $\frac{3}{8}$ inches.

Additional Equipment—for use with No. C-300-4.

For Plaster Ceiling—Use Plaster Ring No. 2-B.

For Protection of Roundel—Use Wire Guard No. WG-2.

COMBINATION NO. C-300-5

(Hinged Concentric Louver Installation)

Consists of:

Permalector No. C-300-A.
Hinged Concentric Louver No. 9-B.

Standard Quantity—1

Weight, Approx. 13 lbs.

Retail Price, Each.....\$15.50

Code.....SETRUNFI

Ceiling Space Required—Same as for No. C-300-4.

Additional Equipment—for use with No. C-300-5.

For Plaster Ceiling—Use Plaster Ring No. 2-B.

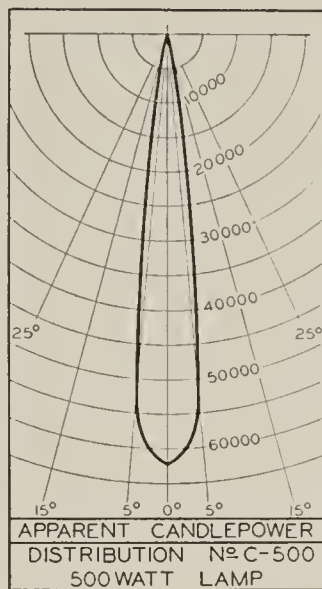


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. C-500 SERIES



No. C-500-A



Application—This is Permaflector used with Spot WS-500. Delivers intense illumination over limited area. Excellent for lighting through skylights in art galleries and other public buildings.

Spacings on Centers:

For uniform illumination, should not exceed one-third the height of bottom of reflector above work plane.

Lamp Size: 500 Watt PS-40 or 300 Watt PS-35.

Dimensions:

Height Permaflector No. C-500-GO—9 inches.
Bottom Opening Circular—Diameter 13 1/2 inches.

PERMAFLECTOR NO. C-500-A

Consists of:

Permaflector No. C-500-GO.
Outlet Box Cover Assembly No. B-3.
Holder No. M-3.

Attaches to any standard 4" Outlet Box, 1 5/8 inches deep.

Standard Quantity—1 **Weight**, Approx. 8 lbs.

Retail Price, Each:

Permaflector No. C-500-A.....\$9.75
Permaflector No. C-500-GO (Glass Only).....\$7.90

Code: Permaflector No. C-500-A.....SEEFIVA

Permaflector No. C-500-GO.....WINSPIGLA

Additional Equipment—for use with C-500-A.

May Be Mounted On:

Conduit No. 6, in which case discard outlet box cover.

For Colored Lighting: Use

Color-Lite No. 8 for external mounting.

PERMAFLECTOR NO. C-500-B

Consists of:

Permaflector No. C-500-GO.
Porcelain Mogul Socket No. 4.
Holder No. M-3.
Box No. KO-11—for attaching to 1/2" conduit stem.

Standard Quantity—1 **Weight**, Approx. 8 lbs.

Retail Price, Each.....\$9.75

Code.....SEEFIBEE

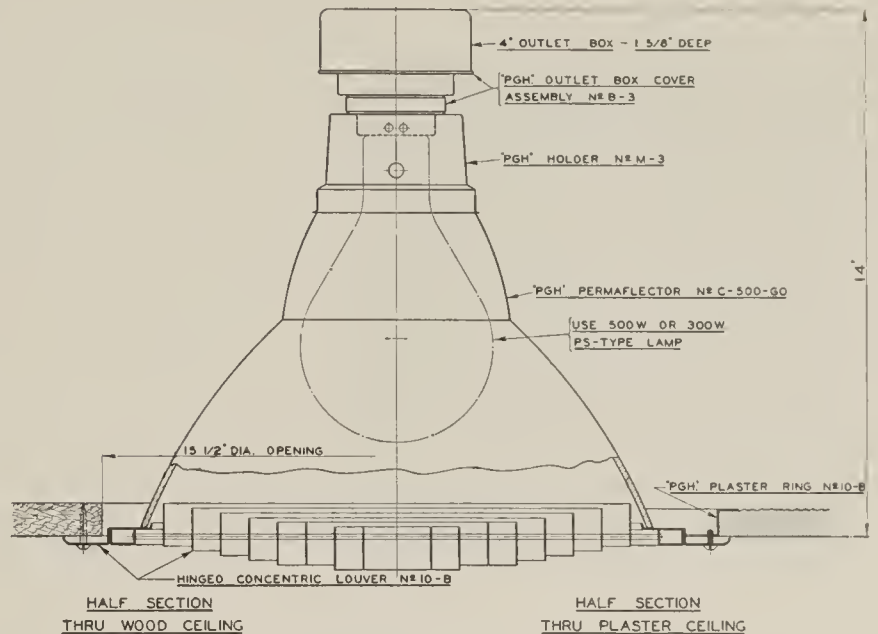
Additional Equipment—for use with No. C-500-B.

For Colored Lighting—Same as for No. C-500-A.

THREE-LIGHT EQUIPMENT

The substitution of Three-Light Mogul Socket No. 5 for Standard Mogul Socket No. 4, converts the following for use with:
200-300-500 Watt PS-40, Three-Light Lamp or
150-200-350 Watt PS-35, Three-Light Lamp

Catalog No.	Std. Quan.	Retail Price Each	Code
Permaflector No. C-500-A, 3-Light	1	\$10.00	SEEFITREA
Permaflector No. C-500-B, 3-Light	1	10.00	SEEFITREB
Combination No. C-500-2, 3-Light	1	11.50	SEFUNTUTRE
Combination No. C-500-4, 3-Light	1	21.00	SEFUNFOTRE
Combination No. C-500-5, 3-Light	1	17.00	SEFUNFITRE



C-500-5 Recessed in Ceiling

COMBINATION NO. C-500-2

(For Recessed Installation)

Consists of:

Permaflector No. C-500-A.
Flush Mounting Ring No. C-500.

Standard Quantity—1

Weight, Approx. 9 lbs.

Retail Price, Each.....\$11.25

Code.....SEFUNTU

Ceiling Space Required:

Space Above Ceiling Line—13 1/2 inches.

Opening to be Cut in Ceiling, Circular—Diam., 13 3/4 inches.

Additional Equipment—for use with No. C-500-2.

For Plaster Ceiling—Use Plaster Ring No. C-500.

For Louvered Lighting—Use
Concentric Louver No. FMC-500-C.

COMBINATION NO. C-500-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permaflector No. C-500-A.
Hinged Ceiling Roundel No. 10-B.

Standard Quantity—1

Weight, Approx. 16 lbs.

Retail Price, Each.....\$20.75

Code.....SEFUNFO

Ceiling Space Required:

Space Above Ceiling Line—14 inches.

Opening to be Cut in Ceiling, Circular—Diam., 15 1/2 inches.

Additional Equipment—for use with No. C-500-4.

For Plaster Ceiling—Use Plaster Ring No. 10-B.

For Protection of Roundel—Use Wire Guard No. WG-10.

COMBINATION NO. C-500-5

(Hinged Concentric Louver Installation)

Consists of:

Permaflector No. C-500-A.
Hinged Concentric Louver No. 10-B.

Standard Quantity—1

Weight, Approx. 19 lbs.

Retail Price, Each.....\$16.75

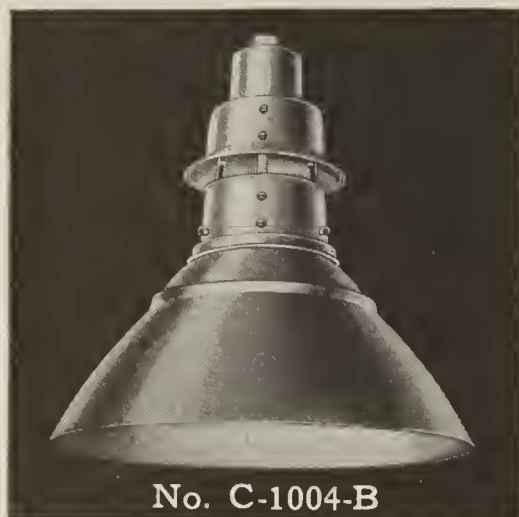
Code.....SEFUNFI

Ceiling Space Required—Same as for No. C-500-4.

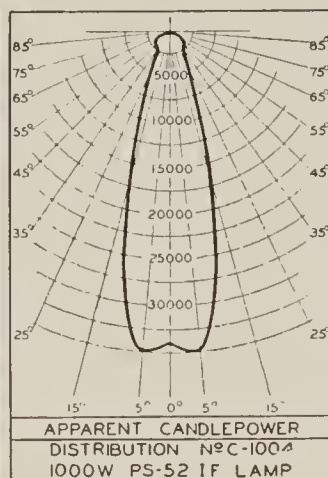
Additional Equipment—for use with No. C-500-5.

For Plaster Ceiling—Use Plaster Ring No. 10-B.

PERMAFLECTOR NO. C-1004 SERIES



No. C-1004-B



Application: For high bay industrial lighting where the lighting equipment is located 40 feet or more above the floor an exceptional concentration is required. Very effective for lighting through skylights as in art galleries, bank lobbies, churches and similar applications.

Spacings on Centers:

For uniform illumination, should not exceed one-third the height of bottom of reflector above work plane.

Dimensions:

Height Permalector No. C-1004-GO—7 $\frac{5}{8}$ inches.
Bottom Opening Circular—Diameter, 16 inches.

Lamp Size:

1000 watt or 750 watt PS-52.

PERMAFLECTOR NO. C-1004-B

Consists of:

Permalector No. C-1004-B.
Porcelain Mogul Socket No. 4.
Holder No. 15-VB.
Box No. KO-19-1/2—for attaching to 1/2 inch conduit stem.
Box No. KO-19-3/4—for attaching to 3/4 inch conduit stem, available on request.

Standard Quantity—1

Weight, Approx. 10 lbs.

Retail Price, each:

Permalector No. C-1004-B\$17.05
Permalector No. C-1004-GO (glass only)\$12.45

Code:

Permalector No. C-1004-BCETHOFB
Permalector No. C-1004-GOCETHOFO

COMBINATION NO. C-1004-2

(For Recessed Installation)

Consists of:

Permalector No. C-1004-B.
Flush Mounting Ring No. I-1005.

Standard Quantity—1

Weight, Approx. 11 lbs.

Retail Price, each\$19.15

CodeCETHOFOTU

Ceiling Space Required:

Space Above Ceiling Line—15 $\frac{1}{4}$ inches.
Opening to be Cut in Ceiling, Circular—Diam., 16 $\frac{1}{4}$ inches.

Additional Equipment—for use with No. C-1004-2.

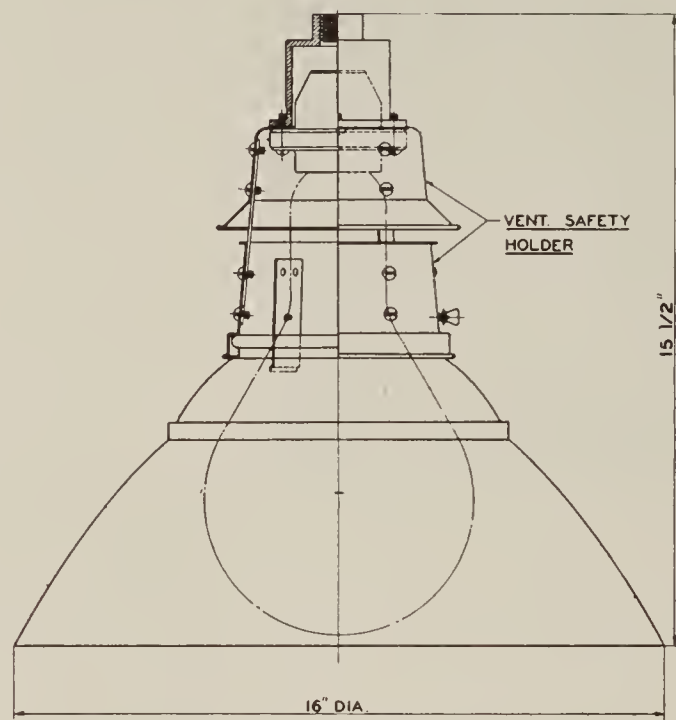
For Plaster Ceiling—Use Plaster Ring No. 3-B.

For Ceiling Roundel (Not Hinged)—Use

Ceiling Roundel No. 91 with or without Wire Guard No. WG-3.

For Louvered Lighting—Use

Concentric Louver No. FM-505-C.



No. C-1004-B

COMBINATION NO. C-1004-4

(Hinged Ceiling Roundel Installation)

Consists of:

Permalector No. C-1004-B.
Hinged Ceiling Roundel No. 3-B.

Standard Quantity—1

Weight, Approx. 24 lbs.

Retail Price, each\$32.05

CodeCETHOFOFO

Ceiling Space Required:

Space Above Ceiling Line—15 $\frac{3}{4}$ inches.

Opening to be Cut in Ceiling, Circular—Diam., 17 $\frac{1}{4}$ inches.

Additional Equipment—for use with No. C-1004-4.

For Plaster Ceiling—Use Plaster Ring No. 3-B.

For Protection of Roundel—Use Wire Guard No. WG-3.

COMBINATION NO. C-1004-5

(Hinged Concentric Louver Installation)

Consists of:

Permalector No. C-1004-B.
Hinged Concentric Louver No. 3-B.

Standard Quantity—1

Weight, Approx. 20 lbs.

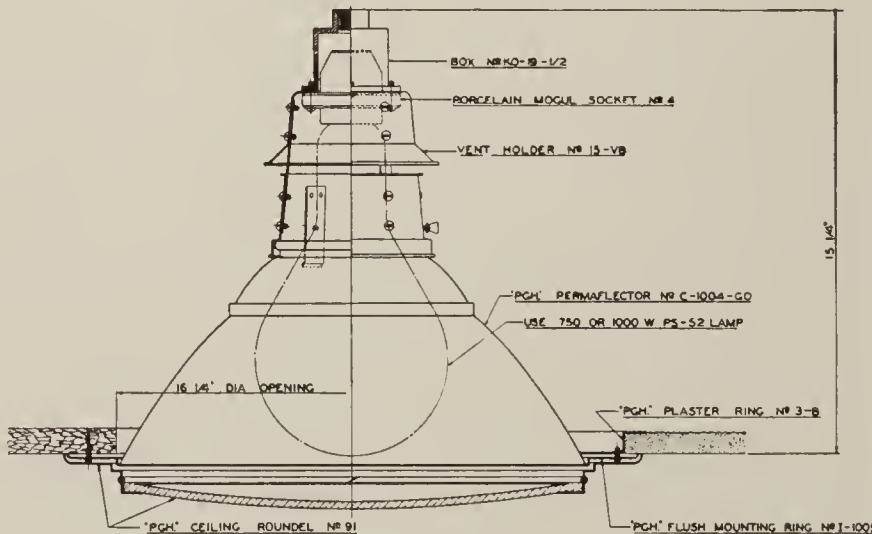
Retail Price, each\$27.80

CodeCETHOFOFI

Ceiling Space Required: Same as for No. C-1004-4.

Additional Equipment—for use with No. C-1004-5.

For Plaster Ceiling—Use Plaster Ring No. 3-B.

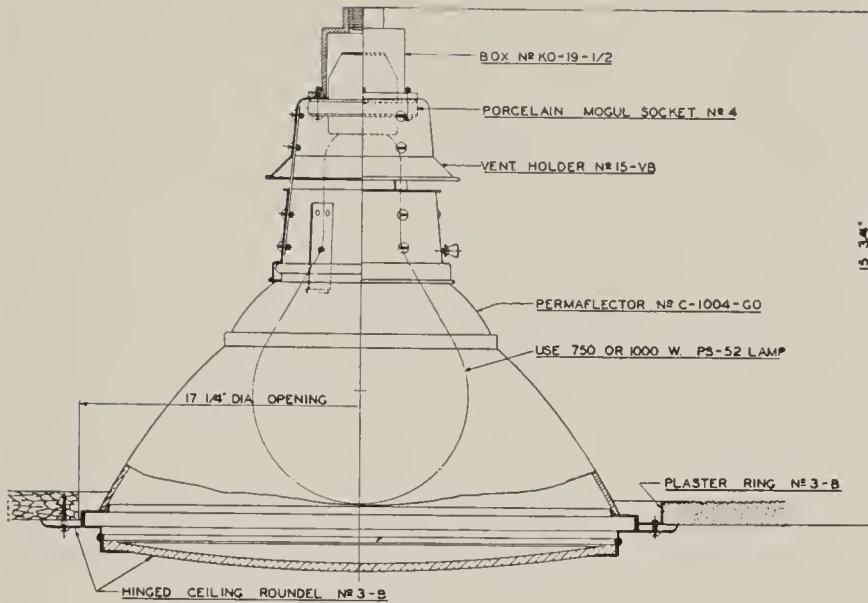


No. C-1004-2 Recessed in Ceiling with Ceiling Roundel No. 91

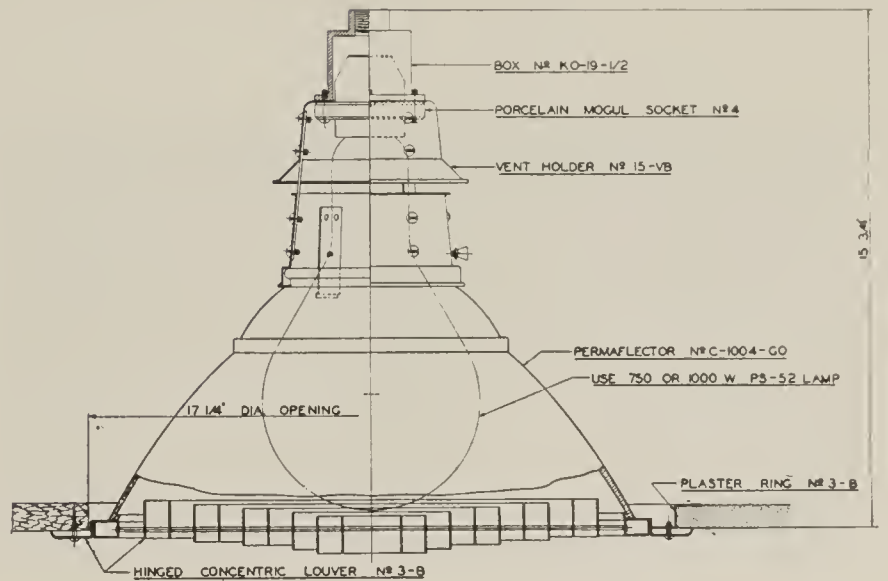


PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR NO. C-1004 SERIES



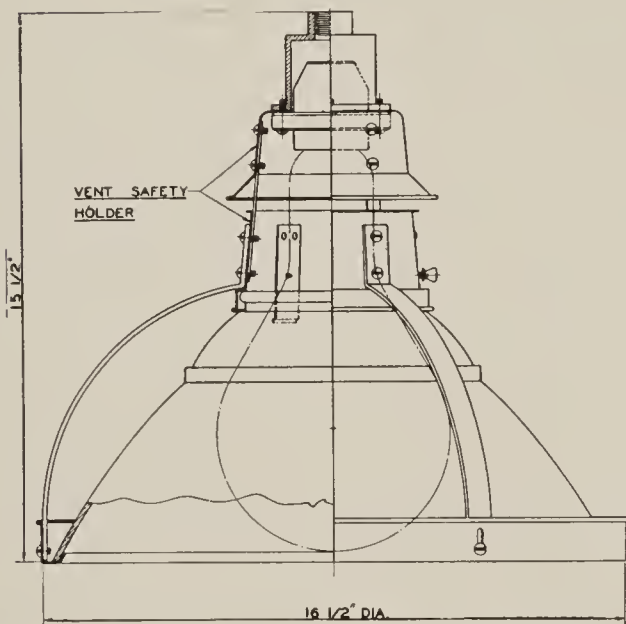
No. C-1004-4 Recessed in Ceiling



No. C-1004-5 Recessed in Ceiling

PERMAFLECTOR NO. C-1004-N

FOR INDUSTRIAL LIGHTING



No. C-1004-N

To provide extra support and protection for the Permaflector without the use of a complete housing, we offer this Permaflector incorporating the retaining-ring arrangement. This unit is quickly installed, ready for service, by merely connecting wiring and attaching to the conduit stem.

Consists of:

Permaflector No. C-1004-GO.

Mogul Socket No. 4.

Safety Holder No. 15-VN.

3 Steel Straps.

Spun Steel Retaining Ring.

Box No. KO-19-1/2—for attaching to 1/2 inch conduit stem.

KO-19-3/4—for attaching to 3/4 inch conduit stem, available on request.

Lamp Size: 1000 Watt or 750 Watt PS-52.

Height Overall: 15 1/2 inches.

Standard Quantity—1

Weight, Approx. 22 lbs.

Retail Price, each\$19.45

CodeCETHOFOEN



Mergard's Northside Recreation Bldg.
Cincinnati, Ohio

J. Wilkins, Architect



Eastern High School Gymnasium
Washington, D. C.

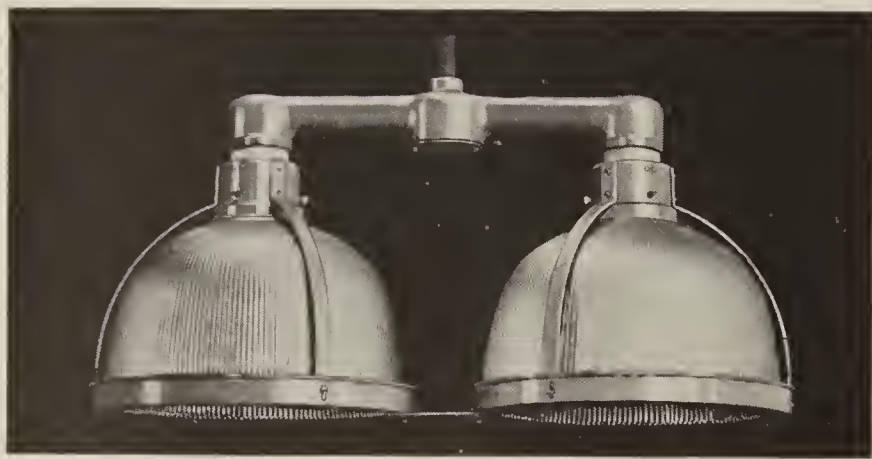
N. C. Wyeth, Architect

PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA



PERMAFLECTOR DUAL UNITS—WITH RETAINING RING

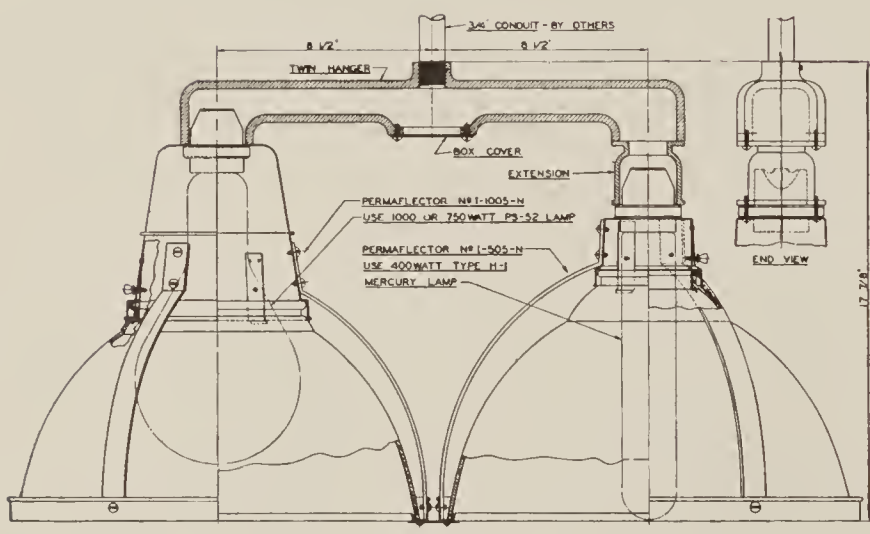
FOR INDUSTRIAL LIGHTING



Application—For high bay industrial lighting where a blend of incandescent and mercury illumination is desirable. A twin hanger arranged for 3/4 inch conduit stem mounting supports two high or low bay Permaflectors, one for incandescent filament lamp and the other for the mercury T-16 lamp. In this manner a perfect blend of incandescent and mercury illumination is obtainable in desirable proportions. Fewer outlets are required than with single units arranged in a staggered pattern.

For general lighting limit spacing of units is dependent upon light distribution of Permaflectors used. Refer to chart and light distribution curves.

DUAL LIGHTING UNIT NO. D-005-N



D-005-N

Consists of:

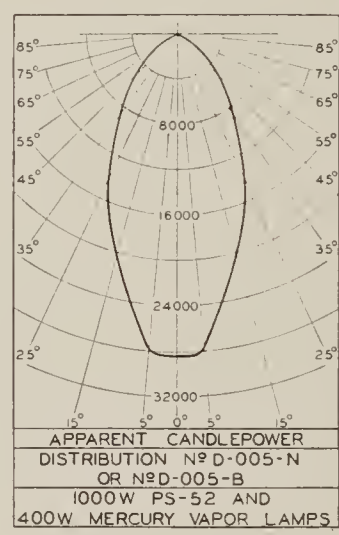
- 1—Twin hanger tapped for 3/4 inch conduit stem.
- 1—Extension.
- 1—Permaflector No. I-1005-GO.
- 1—Permaflector No. I-505-GO.
- 2—Mogul Sockets No. 4.
- 1—Safety Holder No. 14-N.
- 1—Safety Holder No. M-3-N.
- 2—Steel Retaining Rings.
- 6—Steel Strap Supports.
- 1—Steel Connecting Plate.
- 1—Outlet Box Cover.

Dimensions:

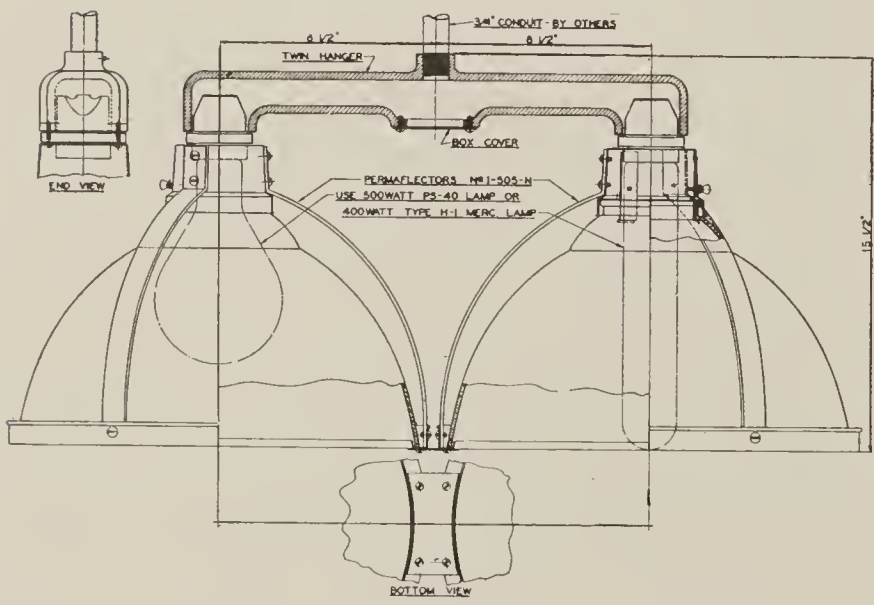
Height Overall—17 7/8 inches.
Diameter of each Permaflector—16 inches.

Lamp Sizes:

1000 or 750 Watt PS-52 and 400 Watt T-16 Mercury Lamps.
Standard Quantity—1
Retail Price, each\$49.46
Weight, Approx. 39 lbs.
Code.....DUOFIN



DUAL LIGHTING UNIT NO. D-505-N



D-505-N

Consists of:

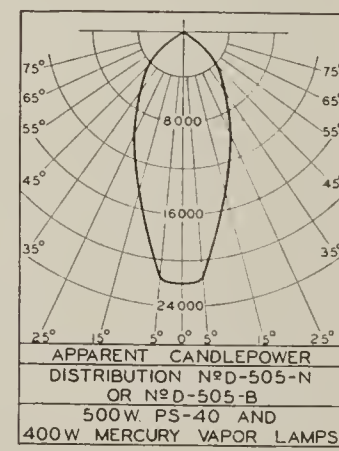
- 1—Twin Hanger Tapped for 3/4 inch conduit stem.
- 2—Permaflectors No. I-505-GO.
- 2—Mogul Sockets No. 4.
- 2—Safety Holders No. M-3-N.
- 2—Steel Retaining Rings.
- 6—Steel Strap Supports.
- 1—Steel Connecting Plate.
- 1—Outlet Box Cover .

Dimensions:

Height Overall—15 1/2 inches.
Diameter of each Permaflector—16 inches.

Lamp Sizes:

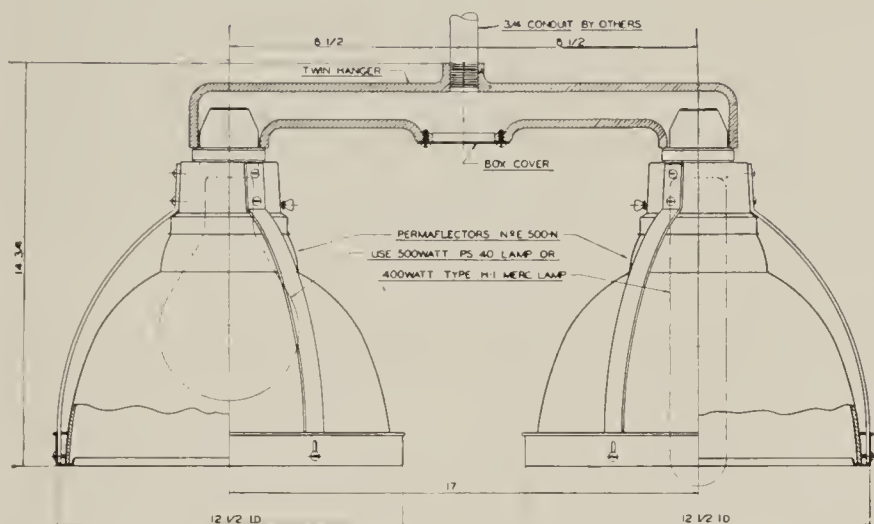
500 Watt PS-40 and 400 Watt T-16 Mercury Lamps.
Standard Quantity—1
Retail Price, each\$47.00
Weight, Approx. 37 lbs.
Code.....DUFIOFIN



PERMAFLECTOR DUAL UNITS—WITH RETAINING RING

FOR INDUSTRIAL LIGHTING

DUAL LIGHTING UNIT NO. D-500-N



D-500-N

Consists of:

- 1—Twin Hanger Tapped for $\frac{3}{4}$ inch conduit stem.
- 2—Permafectors No. E-500-GO.
- 2—Mogul Sockets No. 4.
- 2—Safety Holders No. M-3-N.
- 2—Steel Retaining Rings.
- 6—Steel Strap Supports.
- 1—Steel Connecting Plate.
- 1—Outlet Box Cover.

Dimensions:

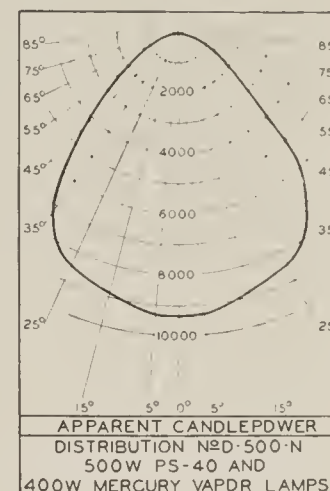
Height Overall— $14\frac{3}{4}$ inches.
Diameter of each Permafector— $12\frac{1}{2}$ inches.

Lamp Sizes:

500 Watt PS-40 and 400 Watt T-16 Mercury Lamps.

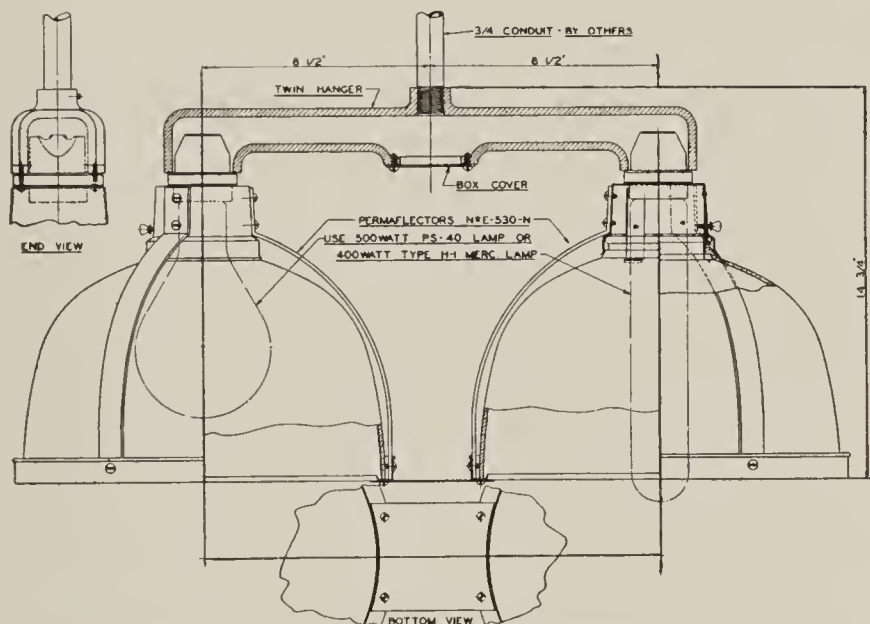
Standard Quantity—1

Retail Price, each.....\$25.70



Weight, Approx. 30 lbs.
Code.....DUFIHUN

DUAL LIGHTING UNIT NO. D-530-N



D-530-N

Consists of:

- 1—Twin Hanger Tapped for $\frac{3}{4}$ inch conduit stem.
- 2—Permafectors No. E-530-GO.
- 2—Mogul Sockets No. 4.
- 2—Safety Holders No. M-3-N.
- 2—Steel Retaining Rings.
- 6—Steel Strap Supports.
- 1—Steel Connecting Plate.
- 1—Outlet Box Cover.

Dimensions:

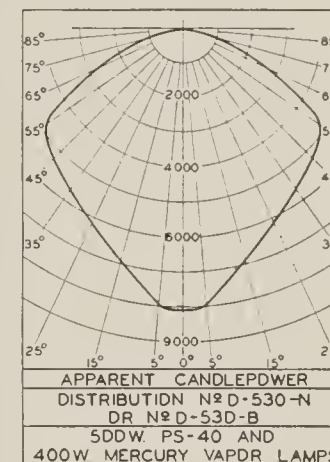
Height Overall— $14\frac{3}{4}$ inches.
Diameter of each Permafector— $13\frac{1}{2}$ inches.

Lamp Sizes:

500 Watt PS-40 and 400 Watt T-16 Mercury Lamps.

Standard Quantity—1

Retail Price, each\$39.17



Weight, Approx. 32 lbs.
Code.....DUFITREN



High bay general lighting of foundry floor provided by Permafectors and 1,000-watt incandescent lamps.



High bay general lighting of continuous rolling mill accomplished by Permafectors and 1,000-watt incandescent lamps.



HOW TO USE TABLE I ILLUMINATION CALCULATIONS

In left-hand column of Table I locate mounting height of lighting unit above work plane in feet. Say it is 31 feet. Now for 31-36 feet locate the spacing of the lighting units. Assume in our example the lighting units will be spaced 20x20 feet, making an area of 400 square feet to be lighted by each unit. Now note that a 300 Watt, 5900 lumen, incandescent lamp will give 8 footcandles illumination; a 500 Watt lamp will give 14 footcandles; a 750 Watt lamp will give 21 footcandles; a 1000 Watt lamp will give 29 footcandles; a 400 Watt mercury lamp will give 22 footcandles.

If more illumination than 22 footcandles is desired, a closer spacing of units should be used. For instance, the 14x14 spacing, using a 1000 Watt, 21,000 lumen lamp gives 59 footcandles; a 16x16 spacing will give 45 footcandles and with an 18x18 foot spacing we can obtain 35 footcandles. These are initial footcandles. With reasonably adequate maintenance of

the lighting system, the illumination should not fall below 70 to 75% of the initial footcandle values.

Interiors requiring high bay lighting equipment are usually large. For this reason Table I gives the illumination calculations for large interiors. In small interiors somewhat lesser illumination results may be expected.

The next step is to decide on the actual unit to be used, which depends on lamp size as obtained from Table I and degree of mechanical protection for reflector desired. Assuming a 1000 Watt lamp is to be used, the exposed reflector I-1005-B can be used where there is small likelihood of the reflectors being broken. I-1005-N with bottom ring and straps may be used where this greater protection to the silvered glass reflector may be necessary. For full protection to the reflector, the fully aluminum housed Permalector No. I-1005-S may be used.

TABLE I—HIGH BAY ILLUMINATION CALCULATIONS *

Mounting Height Above Work Plane Feet	Approx. Spacing Feet	Approx. Area Lighted By Each Unit Sq. Ft.	Initial Footcandles**				Mercury Mogul Base 400 W. T-16 Bulb
			Incandescent Filament				
			P. S. Bulb, Mogul Base				
			300 W.	500 W.	750 W.	1000 W.	
			5900 Lumens	10,000 Lumens	15,000 Lumens	21,000 Lumens	
20 to 24	14x14	196	18	30	45	65	49
	16x16	256	14	23	35	49	37
	18x18	324	11	19	28	39	30
	20x20	400	9	15	23	31	24
	25x25	625		10	15	20	16
	30x30	900			10	14	12
25 to 30	14x14	196	17	29	44	62	47
	16x16	256	13	22	34	47	36
	18x18	324	10	18	27	37	28
	20x20	400	9	14	22	30	23
	25x25	625		9	14	19	15
	30x30	900			9	14	10
35x35	1225				10		
31 to 36	14x14	196	16	28	42	59	45
	16x16	256	13	21	32	45	34
	18x18	324	10	17	25	35	27
	20x20	400	8	14	21	29	22
	25x25	625		9	13	18	14
	30x30	900			9	13	10
35x35	1225				9		
50x50	2500						
37 to 50	14x14	196	15	26	39	55	42
	16x16	256	12	20	30	42	32
	18x18	324	9	16	24	33	25
	20x20	400		13	19	27	20
	25x25	625		8	12	17	13
	30x30	900			9	12	9
35x35	1225				9	7	
50x50	2500				4	4	

*Lamps listed when equipped with Pittsburgh High Bay Reflectors will give illumination values shown except for very small interiors.

**Applying a maintenance factor of 70-75% will give the maintained illumination.

TABLE II—PITTSBURGH HIGH BAY EQUIPMENT

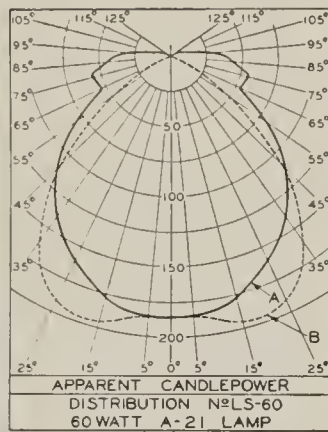
Mounting Height Above Work Plane Feet	Catalog Number of Reflectors	Lamp Type and Size in Watts
17 to 20	E-500 Series E-530 Series	300-500 Watt Incandescent or 400 Watt Mercury
21 to 50	I-505 Series	300-500 Watt Incandescent or 400 Watt Mercury
	I-1002 Series I-1005 Series C-1004 Series	1500-1000-750 Watt Incandescent



PERMAFLECTOR NO. LS-60



No. LS-60



LIBRARY STACK LIGHTING

Application—Most library stack rooms are poorly illuminated with bare lamps spaced at intervals between stacks. Since the shelving usually runs to the seven foot ceiling, such bare lamps illuminate the upper shelves satisfactorily but utterly fail to provide the necessary illumination to the bottom shelves. An intensive downwardly reflected light is essential to get good illumination on the lowest row of books and for this a silvered glass reflector is the best. However, a portion of the reflector must transmit light through the sides so as to illuminate the uppermost books. In addition, the distribution lengthwise of the stacks must be broader than crosswise, to permit a spacing of four to six feet between reflectors. Permaflector LS-60 performs all these functions effectively and efficiently.

Standard Quantity—10

Weight, Approx. 8 lbs.

Retail Price, Each.....\$3.00

CodeELSixty

Spacing Recommended—6 feet on centers, maximum.

Dimensions:

Height Permaflector No. LS-60— $3\frac{7}{8}$ inches.

Long Diameter at Opening— $7\frac{1}{4}$ inches.

Short Diameter at Opening— $5\frac{5}{8}$ inches.

Lamp Size—25 Watt A-19; 60 Watt A-19.

Additional Equipment—for use with No. LS-60.

Holder:

For Grooved Porcelain Socket—Use

$2\frac{1}{4}$ " Form "SR" Holder for 25 Watt A-19 Lamp.

For Porcelain Socket No. 1 or No. KO-8—Use

$2\frac{1}{4}$ " Form "S" Holder for 25 Watt A-19 Lamp.

$2\frac{1}{4}$ " Form "SL" Holder for 60 Watt A-19 Lamp.

May Be Installed With: Outlet Box Cover Assembly No. B-1-3 $\frac{1}{4}$ or B-1-4 with $2\frac{1}{4}$ " Form "S" or "SL" Holder.

May Be Mounted On:

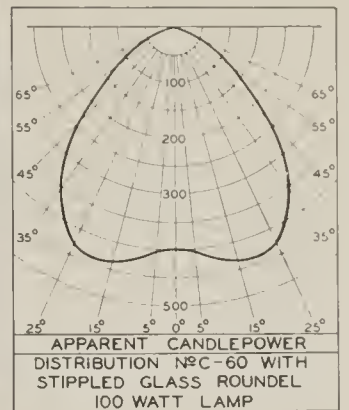
Conduit No. 1 or Knockout Strip No. KO-1 with $2\frac{1}{4}$ " Form "S" or "SL" Holder.

Conduit No. 12 with $2\frac{1}{4}$ " Form "SR" Holder.

PERMAFLECTOR NO. C-60



No. C-60



Application—This is the Permaflector supplied with our Footlights and Borderlights. Cannot be used individually as it has no grooved neck.

Dimensions:

Height Permaflector No. C-60— $3\frac{1}{8}$ inches.

Bottom Opening Circular, Diameter— $4\frac{3}{4}$ inches.

Standard Quantity—20

Weight, Approx. 12 lbs.

Retail Price, Each.....\$2.10

CodeSEESIXTY

PERMAFLECTOR NO. F-1001



No. F-1001

Application — Used in Floodlights No. ST-1110 Series Also used in old style Floodlights Nos. FLC-500, FLC-501, FLC-1000 and FLC-1001. Available for replacement in these obsolete floodlights which have been eliminated from the catalog.

Dimensions:

Opening Circular, Diameter.....16 inches

Depth $7\frac{1}{2}$ inches

Standard Quantity—1

Weight, Approx. 10 lbs.

Retail Price, Each.....\$12.00

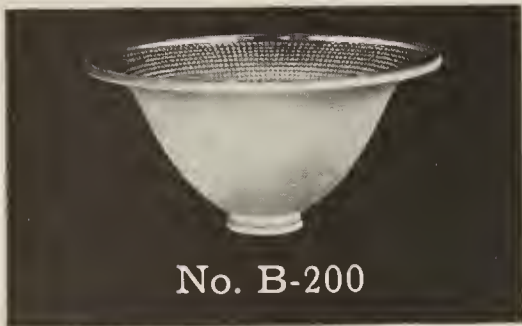
CodeREFSETHONE



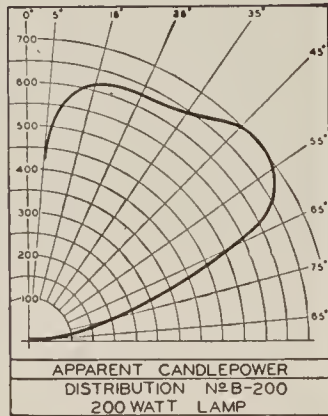
PERMAFLECTORS FOR INDIRECT LUMINAIRES

For Use With Opaque Bowls

PERMAFLECTOR NO. B-200



No. B-200



Standard Quantity—10
Weight, Approx. 16½ lbs.
Retail Price, Each.....

\$3.50

CodeBEDASHTU

Application—For use in opaque bowl indirect luminaires.

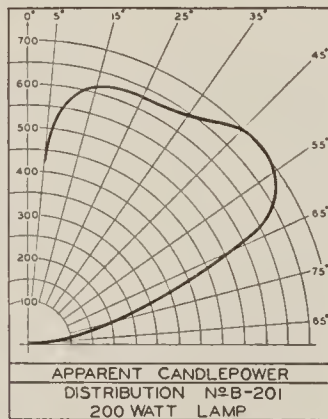
Dimensions—Diameter, 9½ inches; Depth, 4¾ inches.

Lamp Size—200 watt PS-30. Preferably use inside frosted lamps. To produce light distribution indicated by curve, center contact of base of 200-watt lamp must be 4⅞ inches above top rim of Permaflector No. B-200.

PERMAFLECTOR NO. B-201



No. B-201



Standard Quantity—10
Weight, Approx. 16½ lbs.
Retail Price, Each.....

\$3.50

CodeBETUONE

Application—For use in Indirect Floor Lamps. This Permaflector is identical in shape to B-200 except has wider neck to accommodate lamp for base down service.

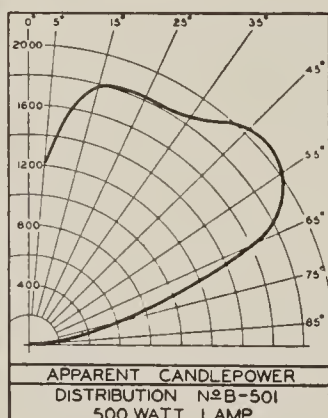
Dimensions—Diameter, 9½ inches; Depth, 4⅞ inches.

Lamp Size—200 watt PS-30; 100-200-300 watt G-30 Three-Light.

PERMAFLECTOR NO. B-501



No. B-501



Standard Quantity—7
Weight, Approx. 28 lbs.
Retail Price, Each.....

\$4.35

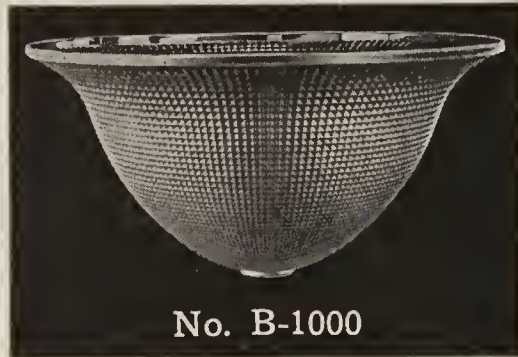
Code: Permaflector No. B-501.....BEEFIVONE

Application—For use in opaque bowl indirect luminaires.

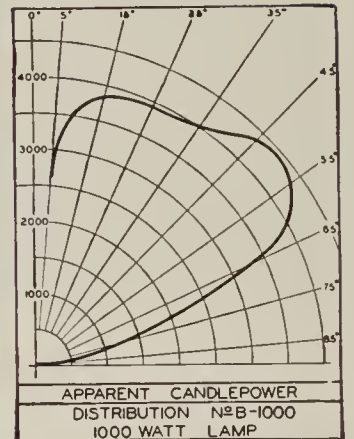
Dimensions—Diameter 12 inches; Depth 6 inches.

Lamp Size—500 watt PS-40, 300 watt PS-35. Preferably use inside frosted lamps. To produce light distribution indicated by curve, center contact of base of 500-watt lamp must be 5⅝ inches above top rim of Permaflector No. B-501.

PERMAFLECTOR NO. B-1000



No. B-1000



Standard Quantity—1
Weight, Approx. 9 lbs.

Retail Price, Each.....

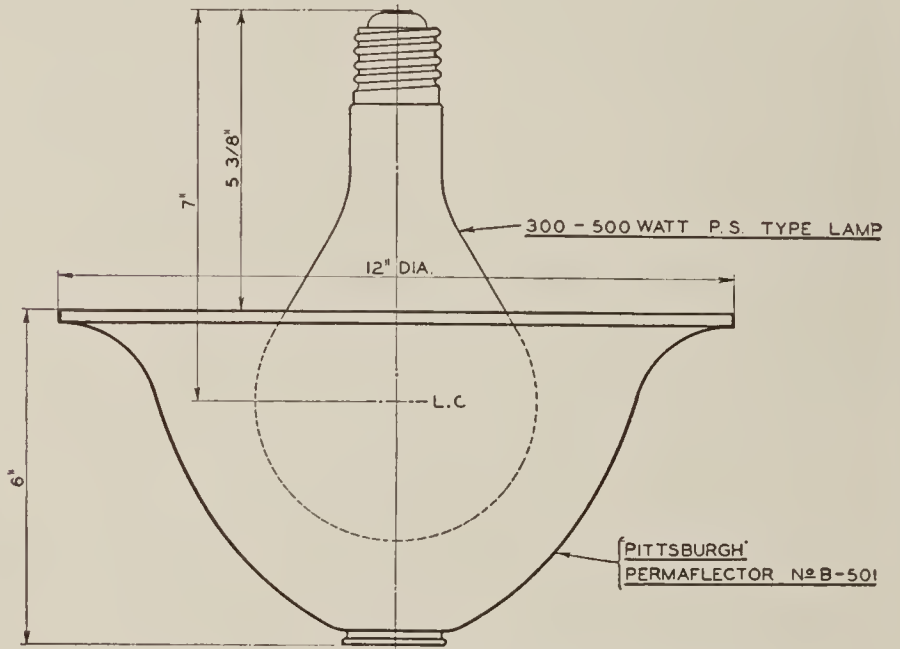
\$9.80

CodeBEETHOSAN

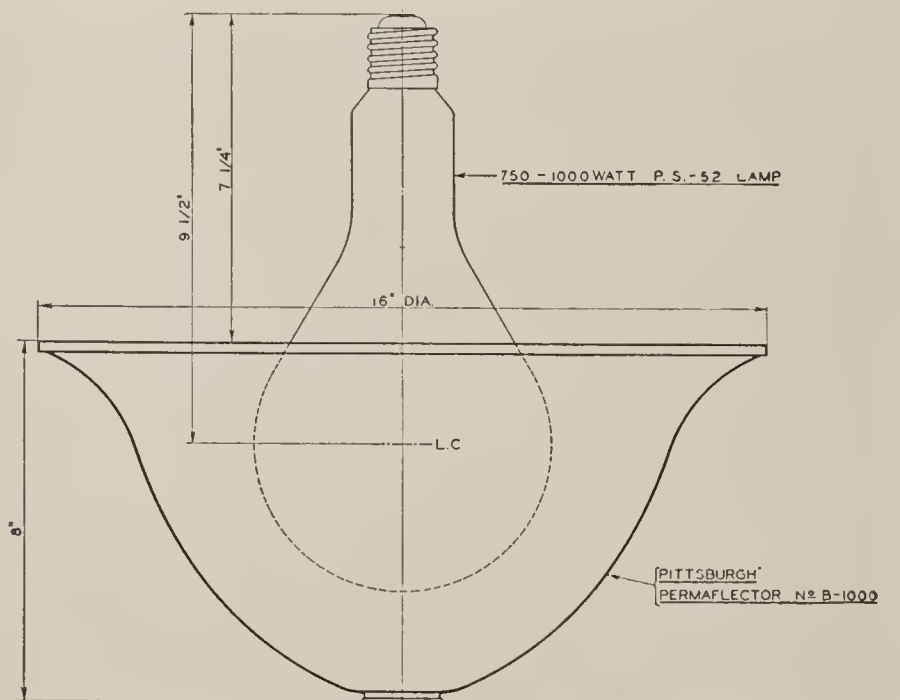
Application—For use in opaque bowl indirect luminaires.

Dimensions—Diameter 16 inches; Depth 8 inches.

Lamp Size—1000 watt PS-52; 750 watt PS-52. Preferably use inside frosted lamp. To produce light distribution indicated by curve, center contact of base of 1000-watt lamp must be 7¼ inches above top rim of Permaflector No. B-1000.



Permaflector No. B-501 Showing Lamp Position



Permaflector No. B-1000 Showing Lamp Position



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTORS FOR INDIRECT LUMINAIRES

PERMAFLECTOR NO. B-207



No. B-207

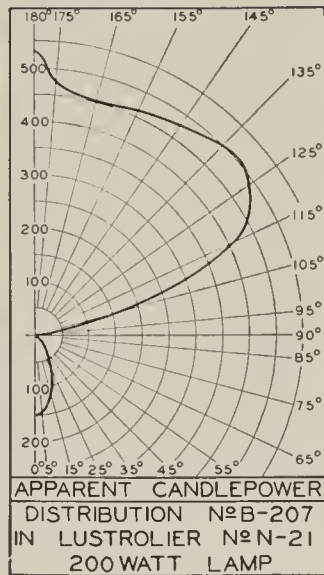
Standard Quantity—10
Weight, Approx. 16½ lbs.

Retail Price, Each \$3.50
CodeBEETOSEV

Application—For use in indirect luminaires having illuminated bowl. Permaflector B-207 is similar to B-200 as to contour, fluting and light distribution but in addition has an open lower portion which transmits a low percentage of light downward for the illumination of the bowl or direct lighting component.

Dimensions—Diameter 9½ inches, Depth 3½ inches.

Lamp Size—200 watt PS-30. Preferably use inside frosted lamps. Lamp position same as for B-200.



PERMAFLECTOR NO. B-509



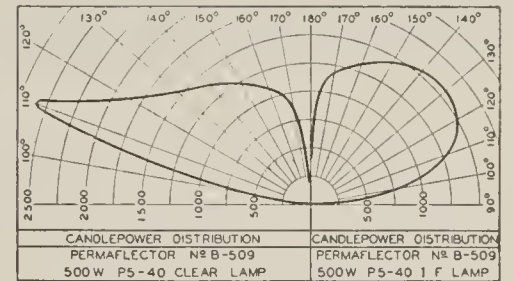
Application—For use in indirect luminaires with opaque bowl such as Luminaires B-50, B-53, etc.

Standard Quantity—10

Weight, Approx. 14 lbs.

Retail Price, Each \$2.50

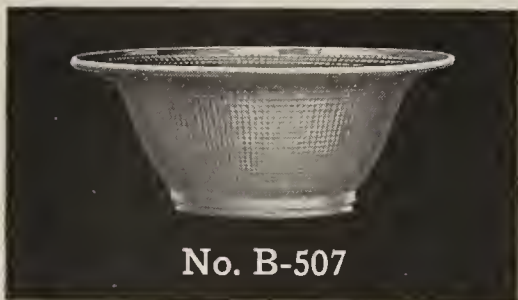
CodeBEFIONIN



Dimensions—Diameter 7¾"; Depth 4½".

Lamp Size—500 watt PS-40, 300 watt PS-35. Preferably use inside frosted lamps. To produce light distribution indicated by curve, center contact of base of 500 watt lamp must be 6⅞" above top rim of Permaflector B-509.

PERMAFLECTOR NO. B-507



No. B-507

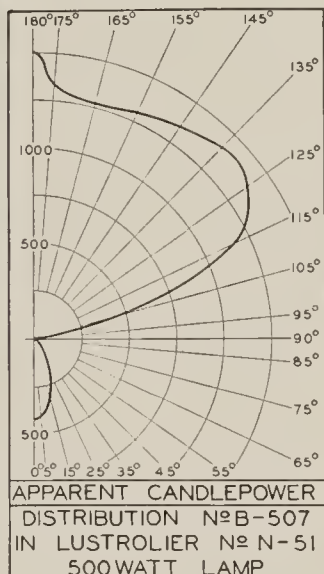
Standard Quantity—7
Weight, Approx. 28 lbs.

Retail Price, Each \$4.35
CodeBEEFISEV

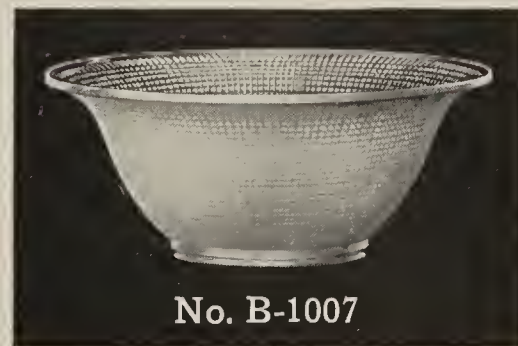
Application—For use in indirect luminaires having illuminated bowl. Similar in design to B-207.

Dimensions—Diameter 12 inches; Depth 4½ inches.

Lamp Size—500 watt PS-40, 300 watt PS-35. Preferably use inside frosted lamps. Lamp position same as for B-501.



PERMAFLECTOR NO. B-1007



No. B-1007

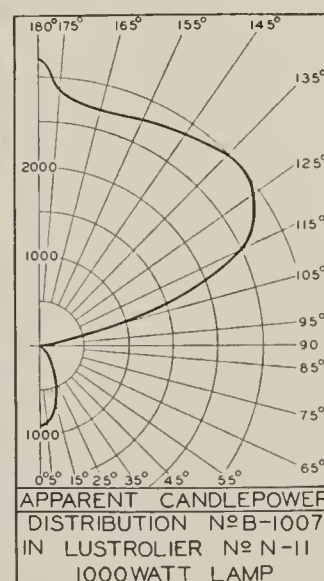
Standard Quantity—1
Weight, Approx. 9 lbs.

Retail Price, Each \$9.70
CodeBEETHOSEV

Application—For use in indirect luminaires having illuminated bowl. Similar design to B-207.

Dimensions—Diameter 16 inches; Depth 6⅞ inches.

Lamp Size—750-1000 watt PS-52. Preferably use inside frosted lamps. Lamp position same as for B-1000.



PITTSBURGH PERMAFLECTORS OFFER ORIGINALITY IN LUMINAIRE DESIGN



The nucleus of Permaflector Luminares—a Permaflector



Permaflector enclosed in luminaire bowl

Permaflectors designed for use in indirect luminaires, lamps and urns offer architects, engineers and lighting fixture manufacturers unlimited opportunities for designing new and original fixtures. Since the Permaflector efficiently reflects and distributes the light flux from the lamp, enclosures of any desired shape, finish or material may be used.

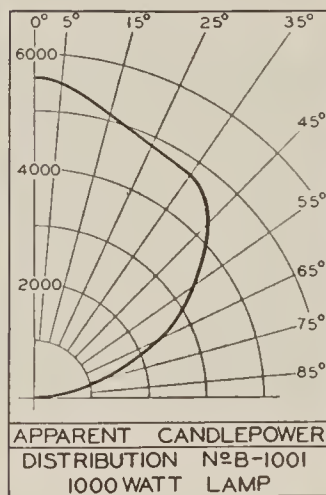
For example, a countless variety of metal shapes could be designed and built around Permaflector No. B-507; yet, the distribution of light as shown on the chart would remain constant. Pittsburgh Reflector Company designers will gladly cooperate with you in designing special luminaires for particular uses.

PERMAFLECTORS FOR URNS, FLOOR AND TABLE LAMPS

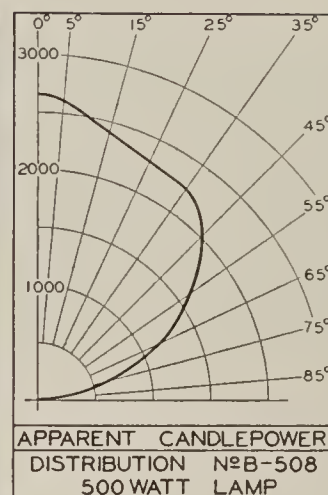
(Lamps Base Down Burning Only)



No. B-1001



No. B-508



PERMAFLECTOR NO. B-1001

Lamp Size—1000 watt or 750 watt PS-52 Inside Frosted.

Dimensions:

Height, overall—13¾ inches.
Permaflector Opening, Circular—Diameter, 16 inches.

Consists of:

Permaflector No. B-1001-GO.
Outlet Box Cover Assembly No. B-3.
Holder No. M-3.
4" Octagonal Outlet Box, 1½ inches deep.

Standard Quantity—1 **Weight**, Approx. 10 lbs.

Retail Price, Each:

Permaflector No. B-1001.....\$11.90
Permaflector No. B-1001-GO (Glass Only)..... 9.70

Code:

Permaflector No. B-1001BEETENONE
Permaflector No. B-1001-GOBEETENGLA

PERMAFLECTOR NO. B-1001-B

Same as Permaflector No. B-1001 except equipped with Box No. KO-11 for attaching to ½ inch conduit stem.

Standard Quantity—1 **Weight**, Approx. 10 lbs.

Retail Price, Each.....\$11.90

CodeBETENONEBI

PERMAFLECTOR NO. B-508

Lamp Size—500 watt PS-40 or 300 watt PS-35 Inside Frosted.

Dimensions:

Height Overall with adapter No. 810 Compressed—11¼ inches.
Permaflector Opening, Circular—Diam., 12 inches.

Consists of:

Permaflector No. B-508-GO.
Outlet Box Cover Assembly No. B-3.
Adapter No. 810.
4" Octagonal Outlet Box, 1½ inches deep.

Standard Quantity—7 **Weight**, Approx. 40 lbs.

Retail Price, Each:

Permaflector No. B-508.....\$7.20
Permaflector No. B-508-GO (Glass Only) 4.35

Code:

Permaflector No. B-508BEEFIVATE
Permaflector No. B-508-GOBEEFIATGLA

PERMAFLECTOR NO. B-508-B

Same as Permaflector No. B-508 except equipped with Box No. KO-11 for attaching to ½ inch conduit stem.

Standard Quantity—7 **Weight**, Approx. 40 lbs.

Retail Price, Each.....\$7.20

CodeBEFIATEBE

PERMAFLECTOR NO. B-208

Lamp Size—200 watt PS-30 Inside Frosted.

Dimensions:

Height, Overall—8¾ inches.
Permaflector Opening, Circular—Diam., 9½ inches.

Consists of:

Permaflector No. B-200 (See page 78 for Illustration and Distribution Curve).
Outlet Box Cover Assembly No. B-1-3¼-LC.
3¼" Octagonal Outlet Box, 1½ inches deep.

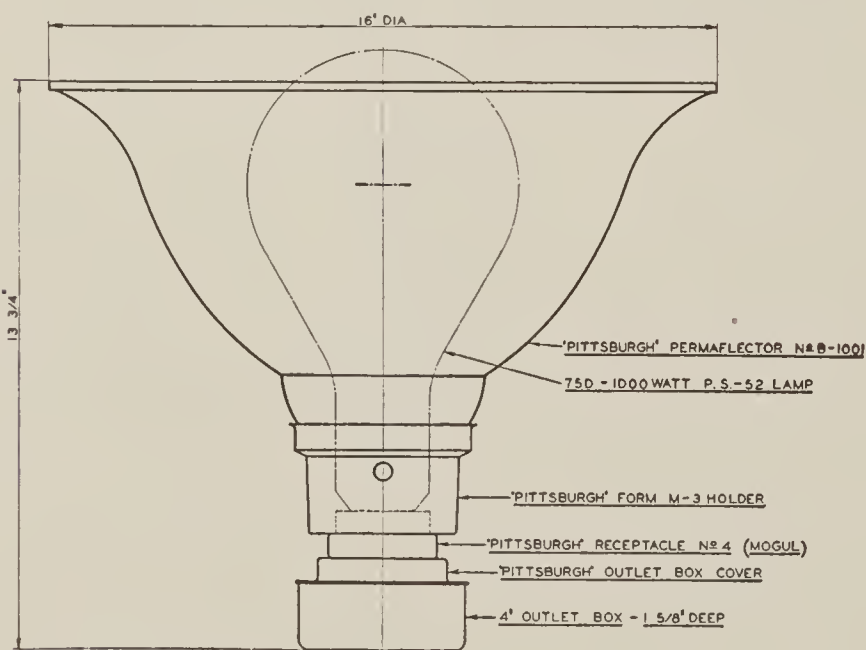
Standard Quantity—10 **Weight**, Approx. 21 lbs.

Retail Price, Each:

Permaflector No. B-208\$4.50

Code:

Permaflector No. B-208BEETUATE



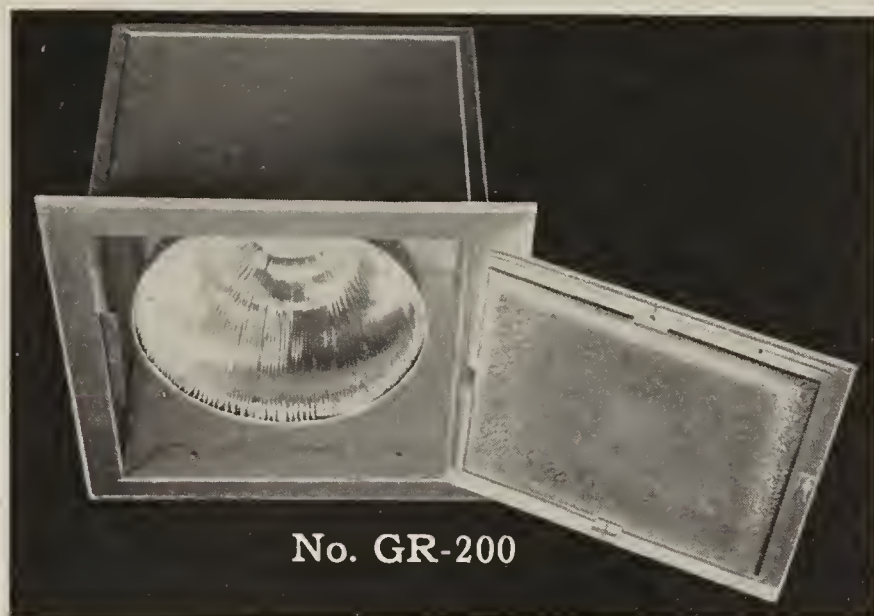
No. B-1001 General Arrangement.
For Indirect Lighting.

SQUARE PERMAFLECTOR BUILT-IN UNITS

(Sprayed and Baked Aluminum Finish)

While the ceiling roundel and louver units are most extensively employed with recessed Permafectors, for some applications square built-in units are best suited. We present

herewith a family of such square units ranging from 100 watt to 500 watt size inclusive. Plaster frames may be had for square, built-in Permafecter units.



No. GR-200

BUILT-IN UNIT NO. GR-500

Consists of:

- Permafecter No. E-500-GO.
- Porcelain Mogul Socket No. 4.
- Holder No. M-3.
- 4" Octagonal Outlet Box—2 1/8 inches deep.
- 13 5/8" square, Heat Resisting Stippled Glass Plate.
- 20-Gage Steel Housing.
- 20-Gage Steel Hinged Frames.

Lamp Size:

500 watt PS-40 or 300 watt PS-35 Mogul Base.

Spacings on Centers:

For uniform illumination, should not exceed ceiling height above work plane.

Ceiling Space Required:

- Space Above Ceiling Line—16 1/2 inches.
- Opening to be Cut in Ceiling—15 3/4 inches square.

Standard Quantity—1

Weight, Approx. 47 lbs.

Retail Price, Each.....\$33.00

CodeGERFI

Additional Equipment—for use with No. GR-500.

For Plaster Ceiling—use Plaster Frame No. GR-50.

BUILT-IN UNIT NO. GR-300

Consists of:

- Permafecter No. E-230.
- Medium Base Porcelain Socket No. 1.
- 4" Octagonal Outlet Box—1 5/8 inches deep.
- 10 1/2" Square Stippled Glass Plate.
- 20-Gage Steel Housing.
- 20-Gage Steel Hinged Frames.

Lamp Size:

300 watt PS-35 or 200 watt PS-30 Med. Base.

Spacings on Centers:

For uniform illumination, should not exceed ceiling height above work plane.

Ceiling Space Required:

- Space Above Ceiling Line—12 1/2 inches.
- Opening to be Cut in Ceiling—12 inches square.

Standard Quantity—1

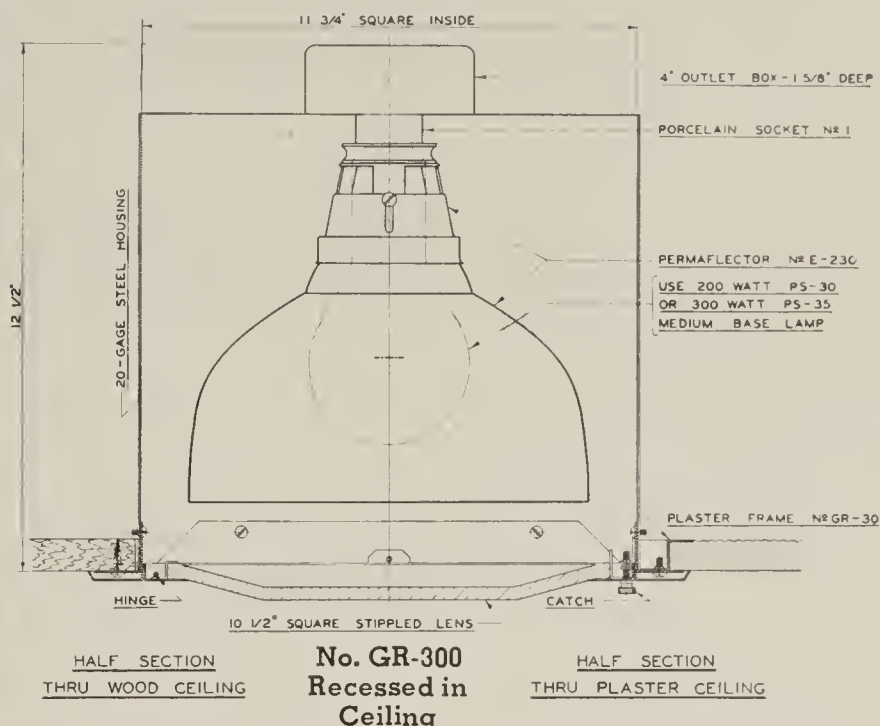
Weight, Approx. 24 lbs.

Retail Price, Each.....\$20.00

CodeGERE

Additional Equipment—for use with No. GR-300.

For Plaster Ceiling—use Plaster Frame No. GR-30.



BUILT-IN UNIT NO. GR-200

Consists of:

- Permafecter No. I-201-A.
- Medium Base Porcelain Socket No. 1.
- 4" Octagonal Outlet Box—1 5/8 inches deep.
- 10 1/2" Square Stippled Glass Plate.
- 20-Gage Steel Housing.
- 20-Gage Steel Hinged Frames.

Lamp Size: 200 watt PS-30.

Spacings on Centers:

For uniform illumination, should not exceed two-thirds the ceiling height above work plane.

Ceiling Space Required:

- Space Above Ceiling Line—11 1/2 inches.
- Opening to be Cut in Ceiling—12 inches square.

Standard Quantity—1

Weight, Approx. 22 lbs.

Retail Price, Each.....\$20.00

CodeGERTU

Additional Equipment—for use with No. GR-200.

For Plaster Ceiling—use Plaster Frame No. GR-30.

BUILT-IN UNIT NO. GR-100

Consists of:

- Permafecter No. E-75.
- Medium Base Porcelain Socket No. 1.
- 2 1/4" Form "SL" Holder.
- 4" Octagonal Outlet Box—1 5/8 inches deep.
- 8 1/2" Square Stippled Glass Plate.
- 20-Gage Steel Housing.
- 20-Gage Steel Hinged Frames.

Lamp Size: 100 watt A-21.

Spacings on Centers:

For uniform illumination, should not exceed ceiling height above work plane.

Ceiling Space Required:

- Space Above Ceiling Line—9 1/4 inches.
- Opening to be Cut in Ceiling—10 inches square.

Standard Quantity—1

Weight, Approx. 12 lbs.

Retail Price, Each.....\$16.50

CodeGERON

Additional Equipment—for use with No. GR-100.

For Plaster Ceiling—use Plaster Frame No. GR-10.

PERMAFLECTOR KNOCKOUT STRIP

(Patented)

For Use With Incandescent Lamps



No. KO-1. Furnished in 10-foot Lengths with Knockouts 3 inches on Centers

KNOCKOUT STRIP NO. KO-1

Permaflexor Knockout Strip is wiring duct or conduit for unit assembly of reflector type illumination equipment. Provides a time and money-saving method of installation in show windows and for many other applications. May be used with any standard reflector and shade holder.

It consists of two main parts: the face and the back. The face is provided with suitably shaped knockouts spaced three inches on centers, providing for quick installation of sockets on any desired spacing. The back fits closely over the face covering three sides of the strip, assuring ample protection to the wiring.

The square shape of Knockout Strip is a new idea in wiring duct construction. With Knockout Joint No. KO-4, it is now possible to turn corners vertically as well as horizontally.

Requires no bending, drilling or punching and a minimum of cutting on the job. Hack-saw and screwdriver are the only tools required.

Material is corrosion-proof and finished in standard Permaflexor silver colored satin finish.

Permaflexor Knockout Strip is furnished in standard ten-foot lengths.

Size.....1 3/4 in. square
Standard Quantity.....Six 10-ft. lengths
Weight.....Approx. 80 lbs.
Retail Price, Each Length.....\$4.00
Code:KAYOSTRIP

KNOCKOUT END NO. KO-2



End No. KO-2

Permaflexor Knockout End is used at the end of Knockout Strip. It is provided with a knockout for standard 3/4-inch conduit or BX connector. It is held fixed by set screws furnished.

Standard Quantity10
WeightApprox. 4 1/2 lbs.
Retail Price, Each.....\$0.60
Code:KAYEND

KNOCKOUT COUPLING NO. KO-3



Coupling No. KO-3

Permaflexor Knockout Coupling is used for joining together lengths of Knockout Strip. It is fixed in position by means of set screws.

Standard Quantity10
WeightApprox. 7 lbs.
Retail Price, Each.....\$0.75
Code:KAYOCOUP

KNOCKOUT JOINT NO. KO-4



Joint No. KO-4

Permaflexor Knockout Joint slips over the Knockout Strip and is fixed in place by the set screws. Permits any angle to be made between adjacent sections of Knockout Strip from 65 to 180 degrees, inclusive. Being square it is reversible on the Knockout Strip.

Standard Quantity—8
CodeKAYOJOINT
Retail Price, Each.....\$1.50
Weight, Approx. 14 lbs.

KNOCKOUT SOCKET NO. KO-8



Socket No. KO-8

Permaflexor Knockout Socket is a porcelain medium screw socket especially designed for Knockout Strip. It has no springs or other parts to get out of order. Merely insert socket in knockout opening and turn. The socket can be inserted in only one position, thus automatically fixing the polarity and lining up the conductor connections.

Standard Quantity60
Weight.....Approx. 13 lbs.
Retail Price, Each.....\$0.35
Code:KAYOSOCK

TO ATTACH ADAPTERS

Loosen the two screws in socket. Place large holes of openings in rim of adapter over the screw heads, and turn slightly so that screw heads engage in smaller portion of the openings. Then tighten screws (screw heads are then within the adapter).



Do not attempt to assemble by putting the receptacle inside the adapter. The "S" Holder and the Knockout Fitter No. KO-9 are attached in same manner as adapters.

KNOCKOUT BOX NO. KO-11



Box No. KO-11

Standard Quantity—10

CodeKAYOBOX

Retail Price, Each.....\$1.00

Attaches to 1/2 inch conduit stem hanger or nipple. Accommodates Mogul Socket No. 4 and No. 5 and Holders used therewith as used with Permaflexors No. 500, 555, and E-500. In combination with Knockout Strip, Knockout Hub No. KO-10, 1/2 inch nipple or hanger, provides the convenient method of wiring.

Weight, Approx. 7 lbs.

KNOCKOUT BOX NO. KO-19

Similar to KO-11 Box except has four No. 8-32 tapped holes in flange for attaching holder. Used with Permaflexors No. E-500-B, E-500-N, I-1005-B, I-1002-N, etc., for industrial lighting.

Standard Quantity—10

Weight, Approx. 12 lbs.

Retail Price, each:

No. KO-19-1/2—for attaching to 1/2 inch conduit stem.....\$1.58

No. KO-19-3/4—for attaching to 3/4 inch conduit stem.....\$1.58

Code: No. KO-19-1/2KAYONIF

No. KO-19-3/4KAYONTRE

KNOCKOUT BOX NO. KO-18

Attaches to 1/2 inch conduit stem or nipple. Accommodates medium base socket No. 1.

Standard Quantity—10

WeightApprox. 10 lbs.

Retail Price, each\$0.95

Code:KAYONATE Knockout Box No. KO-18



KNOCKOUT FITTER NO. KO-9

Provides shade holder groove for attaching any standard holder. It is attached in same manner as adapters.

Standard Quantity.....25

Weight.....Approx. 1 lb

Retail Price, Each.....\$0.25

CodeKAYOFITTER



Fitter No. KO-9

KNOCKOUT HUB NO. KO-10



Hub No. KO-10



As hub appears when in place in conduit

Fits into knockout in face of Strip and is fixed in position by two screws. Permits attachment of 500-watt reflector equipment supported on 1/2 inch conduit stems. Makes it possible to enter face of Strip at any convenient point either with 1/2 inch rigid conduit, cord and 1/2 inch porcelain bushing or armored cable and 1/2 inch cable connector. Particularly useful for flush mounting window lighting installations, where connection from wiring duct to individual reflectors is made by means of armored cable.

Standard Quantity10

Retail Price, Each.....\$0.60

WeightApprox. 3 lbs.

Code:KAYOHUB

KNOCKOUT FLANGE NO. KO-12

Screws into Hub No. KO-10, Flange provides base for support of Permaflexor Interior Spots and Floods. Three No. 8/32 machine screws furnished for fastening spot and flood bases in position.

Standard Quantity10

WeightApprox. 2 1/4 lbs.

Retail Price, Each.....\$0.60

Code:KAYOFLANGE



Flange No. KO-12

KNOCKOUT U-STRAP NO. KO-7

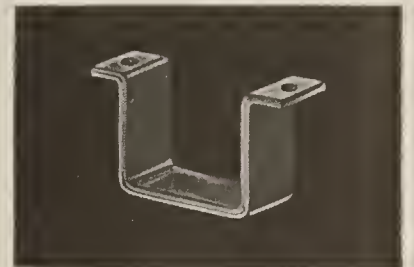
Permaflexor Knockout U-Strap is designed for surface mounting of Knockout Strip. It fits neatly around the Knockout Strip. Use No. 9 wood screw for fastening in position.

Standard Quantity10

WeightApprox. 2 lbs.

Retail Price, Each.....\$0.15

Code:KAYUSTRAP



U-Strap No. KO-7

KNOCKOUT BRACKET NO. KO-5

Permaflexor Knockout Bracket is designed for supporting Knockout Strip from the transom bar, or other vertical surfaces. A set screw furnished in the Knockout Bracket fixes the Knockout Strip in position. Use No. 9 wood screw for fastening in position.

Standard Quantity6

WeightApprox. 9 lbs.

Retail Price, Each.....\$0.63

Code:KAYOBRAK



Bracket No. KO-5

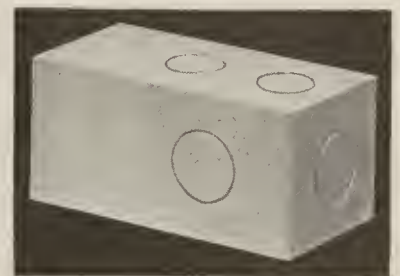
KNOCKOUT SPLICE BOX NO. KO-14

Permaflexor Knockout Splice Box is used at the end of Knockout Strip instead of End KO-2, where it is desired to enter with more than one conduit or armored cable. It has removable cover for access to box when splicing wires; and has 3/4 inch knockout in bottom and in end and two 1/2 inch knockouts in each side.

Standard Quantity—8 Weight, Approx. 9 lbs.

Retail Price, Each.....\$1.25

Code:KOSPLI



Splice Box No. KO-14

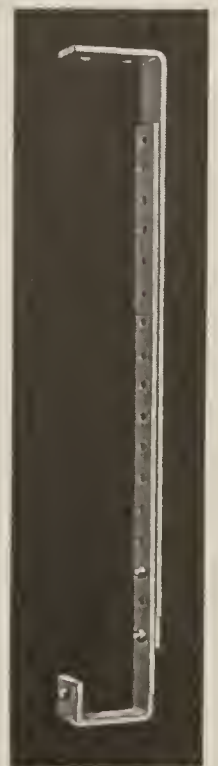
KNOCKOUT HANGER NO. KO-6

Permaflexor Knockout Hanger is used for supporting Knockout Strip at a distance below the ceiling. It is adjustable from 20 to 37 inches and if legs are cut with hack-saw at desired points, can be used for shorter suspension than 20 inches. A set screw fixes Knockout Strip in position. Use No. 9 wood screws for fastening in position.

Standard Quantity—6 Weight, Approx. 15 lbs.

Retail Price, Each.....\$1.20

Code:KAYOHANG



Hanger No. KO-6

PERMAFLECTOR EASY-TO-INSTALL CONDUIT

all" Conduit avoids necessity of cutting through 1 for each receptacle and makes it possible to properly to get even light distribution. Made to ch job.

Wiring is very simple: the back member being lifted off, the binding screws in the receptacles are exposed; can then be quickly wired.



Conduit No. 1

EASY-TO-INSTALL CONDUIT NO. 1

May be used with any window, case or industrial type Permaflector of 300 Watt medium base lamp capacity or less.

Size—1 $\frac{3}{8}$ inches high; 1 $\frac{3}{4}$ inches wide.

Accommodates six No. 12 wires.

Consists of:

20-gauge galvanized steel channels, face and back.

Porcelain Sockets No. 1.

End Caps No. EC-1 with $\frac{1}{2}$ inch knockout.

Couplings, if conduit length exceeds 10 feet.

Standard Quantity—Any length. Made to order to fit job.

Code: Conduit No. 1.....CONDUTONE

Retail Price — (Not Wired)

Per outlet with Sockets No. 1 spaced 12" on centers.....\$1.10

For Wider Spacing, add 5c per outlet for each additional inch over 12" on centers.

For Lesser Spacing, deduct 5c per outlet for each inch less than 12" on centers.



Bracket

Ceiling Hanger

Flexible Joint

Easy to Wire and Install

EASY-TO-INSTALL CONDUIT NO. 6

Punched to accommodate Porcelain Mogul Sockets Nos. 4 and 5, not wired. For use with Permaflectors Nos. 500, 555, E-500, C-300, mogul sockets and holders of which attach directly to the conduit.

Size—2 $\frac{1}{8}$ inches high; 2 $\frac{3}{4}$ inches wide.

Accommodates 6 circuits, or twelve No. 12 wires.

Consists of:

20-gauge galvanized steel channels, face and back End Caps No. EC-6 with $\frac{1}{2}$ inch knockout. Couplings included if conduit length exceeds 10 feet.

Standard Quantity—Any length. Made to order to fit job.

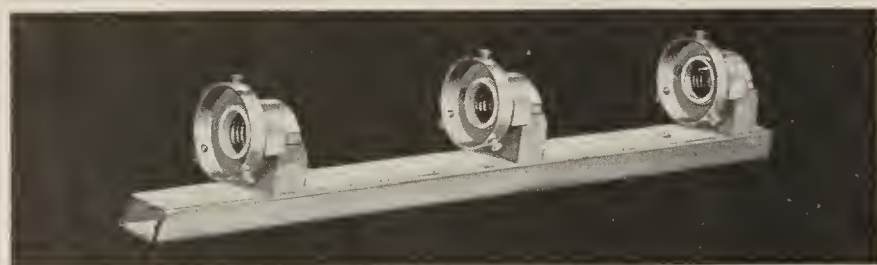
Code: Conduit No. 6.....CONDUSIX

Retail Price—(Not Wired—Sockets Not Included)

Per outlet spaced 12 inches on centers.....\$1.00

For Wider Spacing, add 5c per outlet for each additional inch over 12" on centers.

For Lesser Spacing, deduct 5c per outlet for each inch less than 12" on centers.



EASY-TO-INSTALL CONDUIT NO. 2-A

Same as Conduit No. 1 except equipped with porcelain Angle Socket No. 3. Angle Sockets make it possible to rotate P-type Permaflectors on their axes after installation is completed and burning, thus asuring best light distribution.

Standard Quantity—Any length. Made to order to fit job.

Code: Conduit No. 2-A.....CONTUA

Retail Price—(Not Wired—Holders Not Included)

Per Outlet with Angle Socket No. 3 spaced 12 inches on centers\$2.00

For Wider Spacing, add 5c per outlet for each additional inch over 12" on centers.

For Lesser Spacing, deduct 5c per outlet for each inch less than 12" on centers.

ADDITIONAL CONDUIT FITTINGS

Standard Quantity—One When Ordered With Conduit

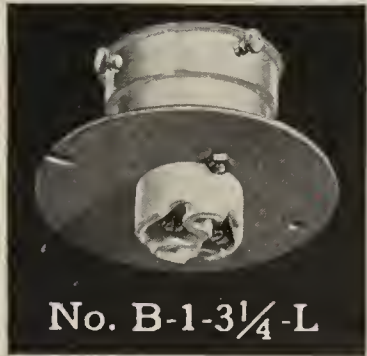
For Use With Conduit Nos. 1, and 2-A	Retail Price Each	Code
Convenience Outlets: Using Socket No. 1.....	\$0.40	CONDUTOUT
Flexible Joint No. FJ-1.....	2.00	CONJOINT
U-Strap No. U-1.....	0.15	USONE
Additional End Caps No. EC-1.....	0.35	ENDCAPONE
Transom Bar Bracket No. BR-1..... Vertical member 10 inches long. Holds Conduit 5 $\frac{1}{2}$ inches from face of transom bar to center line of conduit.	0.66	CONBRACK
Ceiling Hanger No. CH-1..... Standard lengths 6, 8, 10, 12, 14, 18 and 20 inches. Prices on request for special lengths.	0.75	CEHANG

For Use With Conduit No. 6	Retail Price Each	Code
Convenience Outlets: Using Socket No. 1..... Using Flush Plug Receptacle.....	\$0.40 0.55	CONDUTOUT CONDUFLUSH
Flexible Joint No. FJ-6.....	2.50	CONSIXJOIN
U-Strap No. U-6.....	0.25	USSIX
Additional End Caps No. EC-6.....	0.35	ENDCASIX
Transom Bar Bracket No. BR-6..... Vertical member 14 inches long. Holds Conduit 6 inches from face of transom bar to center line of conduit.	0.66	CONSIXBRAC
Ceiling Hanger No. CH-6..... Standard lengths 6, 8, 10, 12, 14, 18 and 20 inches. Prices on request for special lengths.	0.75	CEHANGSIX



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

OUTLET BOX COVER ASSEMBLIES NO. B-1 SERIES



No. B-1-3 1/4-L

Consists of a 3 1/4 inch or 4 inch outlet box cover, equipped with Pittsburgh Porcelain Socket No. 1 arranged to accommodate "Pittsburgh" Adapters. Fits any standard 3 1/4 inch or 4 inch outlet box having depth of 1 1/2 inches.

May be used with Adapters No. 1234 and 1256, Form 'S', 'L', 'LC' or 'LCA' holders and any of the Permaflectors utilizing these.

(For Use With 3 1/4" Outlet Box)

Assembly No.	Including Holder No.	Std. Quan.	Wgt. Approx. Lbs.	Retail Price Each	Code
B-1-3-1/4	None	50	20	\$.45	BONETHRE
B-1-3-1/4-S	2 1/4" Form "S"	50	23	.60	BONETHRESS
B-1-3-1/4-SL	2 1/4" Form "SL"	50	24	.60	BONETHRESL
B-1-3-1/4-L	2 1/4" Form "L"	50	25	.70	BONETHREL
B-1-3-1/4-LC	2 1/4" Form "LC"	50	25	.70	BONETHRELC

(For Use With 4" Outlet Box)

B-1-4	None	50	26	.45	BONEFOR
B-1-4-S	2 1/4" Form "S"	50	29	.60	BONEFORES
B-1-4-SL	2 1/4" Form "SL"	50	30	.60	BONEFORESL
B-1-4-L	2 1/4" Form "L"	50	31	.70	BONEFOREL
B-1-4-LC	2 1/4" Form "LC"	50	31	.70	BONEFORELSE

OUTLET BOX COVER ASSEMBLIES NO. B-2 SERIES



No. B-2-3 1/4-S

For jobs where the cove is a circle or ellipse with short radius. In such coves it is not practical to use "Pittsburgh" Conduit because of the curvature.

The assembly No. B-2-3 1/4-S and B-2-3 1/4-L of outlet box cover, angle socket and shade holder illustrated herewith makes it convenient to use the Permaflectors Nos. P-25, P-40, P-75-A, P-76, P-101, P-151, and P-201 in cove lighting work.

It does not matter in what position the outlet box is installed, since by means of the slotted center piece the socket may be rotated into alignment with the cove.

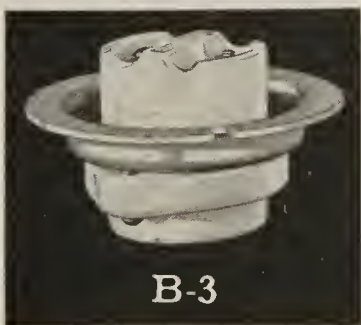
(For Use With 3 1/4" Outlet Box)

Assembly No.	Including Holder No.	Std. Quan.	Wgt. Approx. Lbs.	Retail Price Each	Code
B-2-3-1/4	None	50	36	\$.95	BETUTHRE
B-2-3-1/4-S	2 1/4" Form "S"	50	39	1.10	BETUTHRESS
B-2-3-1/4-SL	2 1/4" Form "SL"	50	40	1.10	BETUTHRESL
B-2-3-1/4-L	2 1/4" Form "L"	50	41	1.20	BETUTHRELL
B-2-3-1/4-LC	2 1/4" Form "LC"	50	41	1.20	BETUTRELSE

(For Use With 4" Outlet Box)

B-2-4	None	50	41	.95	BETUFOR
B-2-4-S	2 1/4" Form "S"	50	44	1.10	BETUFORESS
B-2-4-SL	2 1/4" Form "SL"	50	45	1.10	BETUFORESL
B-2-4-L	2 1/4" Form "L"	50	46	1.20	BETUFOREL
B-2-4-LC	2 1/4" Form "LC"	50	46	1.20	BETUFORELSE

OUTLET BOX COVER ASSEMBLY NO. B-3



B-3

No. B-3 consists of Pittsburgh Mogul Socket No. 4, with 4 inch outlet box cover, raised cover. Fits any 4 inch outlet box 1 5/8 inches deep. Used with Permaflectors No. 500, 555, C-300-A, C-500-A, E-500, E-530, I-505, B-508, B-1001.

Standard Quantity—50.
Weight, Approx. 50 lbs.
Retail Price, Each.....\$1.25
CodeBETHREE

PERMAFLECTOR SOCKETS

Porcelain Socket No. 1

(Medium Base)

Standard Quantity—100 Weight, Approx. 21 lbs.
Retail Price, Each.....\$0.30
CodeRECEPTONE



**No. 1
Socket**

Porcelain Angle Socket No. 3

(Medium Base)

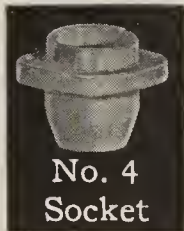
Standard Quantity—100
Weight, Approx. 46 lbs.
Retail Price, Each.....\$0.90
CodeRECEPTHREE



**No. 3
Angle Socket**

Porcelain Mogul Socket No. 4

Standard Quantity—50
Weight, Approx. 36 lbs.
Retail Price, Each.....\$1.00
CodeRECEPTFOUR



**No. 4
Socket**

Porcelain Mogul Socket No. 5

(For Use With Three-Light Lamps)

Same as Porcelain Mogul Socket No. 4 but has the two filament construction.

Standard Quantity—50 Weight, Approx. 36 lbs.
Retail Price, Each.....\$1.25
CodeRECEPTFIVE

Porcelain Socket No. 159

(Medium Base)

Grooved porcelain socket with 1/2" female cap for use with No. ST-200 Floodlights and Permaflectors No. E-150-RA, E-230-RA, etc.

Standard Quantity—50
WeightApprox. 17 lbs.
Retail Price, each\$0.33
CodeRECEPONFIN

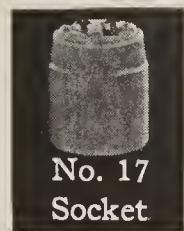


**No. 159
Socket**

Porcelain Mogul Socket No. 17

(For Use With Luminaires of 500 Watt Capacity)

Standard Quantity—10
Weight, Approx. 6 lbs.
Retail Price, Each.....\$0.45
CodeRECEPONSET



**No. 17
Socket**

Porcelain Mogul Socket No. 30

(For Use With Luminaires of 1000 Watt Capacity)

Standard Quantity—10
Weight, Approx. 6 lbs.
Retail Price, Each.....\$0.95
CodeRECEPTUNIN



**No. 30
Socket**

Porcelain Med. Bi-Post Socket No. 78

(For Use With Luminaires of 500 to 1000 Watt Capacity Using Bi-Post Lamps)

Standard Quantity—10
Weight, Approx. 7 lbs.
Retail Price, Each.....\$1.65
CodeRECEPBIPO



**No. 78
Bi-post
Socket**

Porcelain Mogul Socket No. 56

(For use with No. ST-500 and ST-530 Series Floodlights)

Standard Quantity—10
WeightApprox. 9 lbs.
Retail Price, each\$0.95
CodeRECEPFIO



**No. 56
Socket**



HOLDER ADAPTERS AND HOLDERS

(Sprayed and Baked Aluminum Finish)

The use of the wrong adapter changes the focal center of the lamp in its relation to the reflector, hence alters the distribution of the lighting and lessens the lighting effectiveness. The adapter is part of the reflector and must be used therewith.



No. 1256

Compressed

Extended

ADAPTER NO. 1256

Standard Quantity—50 Weight, Approx. 16 lbs.
Retail Price, Each.....\$0.50
CodeADAPTFISIX

ADAPTER NO. 1234

Standard Quantity—50 Weight, Approx. 17 lbs.
Retail Price, Each.....\$0.50
CodeADAPTREFOR

ADAPTER NO. 1256-R



Adjustability same as No. 1256. For use with grooved porcelain medium base sockets.

Std. Quantity—50 Weight, Approx. 16 lbs.
Retail Price, Each.....\$0.50
CodeADAFISIXAR

ADAPTER NO. 1234-R



Adjustability same as No. 1234. For use with grooved porcelain medium base sockets.

Std. Quantity—50 Weight, Approx. 17 lbs.
Retail Price, Each.....\$0.50
CodeADATRIFOAR

ADAPTER NO. 42



Adjustability same as No. 1256. For use with Mogul Socket No. 4 and Two Filament Mogul Socket No. 5.

Standard Quantity—50 Weight, Approx. 16 lbs.
Retail Price, Each.....\$1.25
CodeHOLDFORTU

ADAPTER NO. 810



Adjustability same as No. 1234. For use with Mogul Socket No. 4 and Two Filament Mogul Socket No. 5.

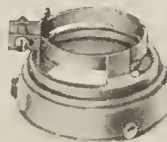
Standard Quantity—50 Weight, Approx. 16½ lbs.
Retail Price, Each.....\$1.25
CodeHOLDATETEN

2¼" FORM 'SR' HOLDER



Standard Quantity—50 Weight, Approx. 5 lbs.
Retail Price, Each.....\$0.25
CodeHOLDERSR

2¼" FORM 'SLR' HOLDER



Standard Quantity—50 Weight, Approx. 6 lbs.
Retail Price, each.....\$0.35
CodeHOLDESLESLER

2¼" FORM 'LR' HOLDER



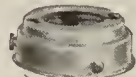
Standard Quantity—50 Weight, Approx. 6½ lbs.
Retail Price, Each.....\$0.35
CodeHOLDERELR

2¼" FORM 'S' HOLDER



Standard Quantity—50 Weight, Approx. 4 lbs.
Retail Price, Each.....\$0.16
CodeHOLDESS

2¼" FORM 'SL' HOLDER



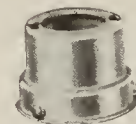
Standard Quantity—50 Weight, Approx. 6 lbs.
Retail Price, Each.....\$0.16
CodeHOLDESL

2¼" FORM 'L' HOLDER



Standard Quantity—50 Weight, Approx. 6½ lbs.
Retail Price, Each.....\$0.25
CodeHOLDEREL

2¼" FORM 'LC' HOLDER



Standard Quantity—50 Weight, Approx. 7 lbs.
Retail Price, Each.....\$0.25
CodeHOLDELSEE

HOLDER NO. M-3



This is a 4" safety holder for use with Mogul Socket No. 4 and Two Filament Mogul Socket No. 5.

Standard Quantity—50 Weight, Approx. 21½ lbs.
Retail Price, Each.....\$0.60
CodeHOLDEMTRE

HOLDER NO. M-3-N

Similar to No. M-3 except with side holes. Used with Permaflexors No. E-500-N, E-530-N, and I-505-N.

Standard Quantity—50 Weight, Approx. 21½ lbs.
Retail Price, each.....\$0.60
CodeHOLDEMTREN

HOLDER NO. 14-B



This is a 7" safety holder for use with Permaflexor No. I-1005 series.

Standard Quantity—10 Weight, Approx. 13 lbs.
Retail Price, each.....\$2.30
CodeHOLDONFOB

HOLDER NO. 14-N

Similar to No. 14-B except with side holes. Used with Permaflexor No. I-1005-N.

Standard Quantity—10 Weight, Approx. 13 lbs.
Retail Price, each.....\$2.30
CodeHOLDONFON

HOLDER NO. 15-VB



This is a 5¼" Ventilated Safety Holder for use with Permaflexors No. I-1002-B and C-1004-B.

Standard Quantity—10 Weight, Approx. 12 lbs.
Retail Price, each.....\$2.15
CodeHOLDOVIB

HOLDER NO. 15-VN

Similar to No. 15-VB except with side holes. Used with Permaflexors No. I-1002-N and C-1004-N.

Standard Quantity—10 Weight, Approx. 12 lbs.
Retail Price, each.....\$2.15
CodeHOLDOVIN

3¼" FORM 'S' HOLDER



For use with Socket No. 1 for 250 watt G-30 Floodlight Lamp.

Standard Quantity—50 Weight, Approx. 8½ lbs.
Retail Price, Each.....\$0.30
CodeHOLTRESS

HOLDER NO. 12-A



This is a 4" safety holder for use with Permaflexor No. C-300 series.

Standard Quantity—50 Weight, Approx. 27 lbs.
Retail Price, Each.....\$2.00
CodeHOLDTWELVE

PERMAFLECTOR FLUSH MOUNTING RINGS

(Sprayed and Baked Aluminum Finish)

For convenience in making flush mounting installations. Pittsburgh Outlet Box Cover Assemblies, to which the Adapters or Holders of the Permafectors are directly attached, are used. It will be noted that Permafectors No. 105, No. 110 and No. 500 are cut off at an oblique angle. To successfully set these Permafectors flush, it is necessary to construct the ceil-

ing with a dip towards the plate glass at the same angle. When flush mounting Permafectors it is necessary that the opening in the ceiling be cut to the proper size. For round reflectors merely cut round hole of diameter specified. For high wattages in confined spaces it may be desirable to provide ventilation to prevent abnormal temperatures.

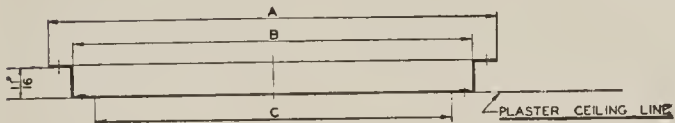


No. 55

Flush Ring No.	Dia. of Hole in Ceiling	Overall Ring Dia.	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
28	5 $\frac{3}{4}$ "	7"	40	13	\$0.30	FLUMORATE
54	9 $\frac{3}{4}$ "	11 $\frac{5}{8}$ "	32	21	.50	FLUFIFOR
55	8 $\frac{3}{4}$ "	10 $\frac{1}{8}$ "	40	18	.42	FLUHUNTEN
73	7"	8 $\frac{3}{4}$ "	48	22	.38	FLUSEVTREE
77	7 $\frac{1}{4}$ "	8 $\frac{3}{4}$ "	48	22	.38	FLUSEVSEV
555	12 $\frac{3}{4}$ "	14"	25	17	1.00	FLUFIFI
C-100	8 $\frac{3}{8}$ "	10"	40	19	.42	FLUSEEHUND
C-201	10 $\frac{1}{4}$ "	11 $\frac{1}{2}$ "	36	19	.65	FLUSEETONE
C-300	11 $\frac{3}{4}$ "	14"	25	18	1.20	FLUSETRUN
C-500	13 $\frac{3}{4}$ "	15 $\frac{1}{2}$ "	25	17	1.50	FLUSEFIHUN
E-500	12 $\frac{1}{4}$ "	14"	25	18	1.15	FLUIFI
I-25	4 $\frac{3}{4}$ "	5 $\frac{3}{4}$ "	40	11	.30	FLUREETUFI
I-201	10 $\frac{1}{4}$ "	11 $\frac{1}{2}$ "	40	20	.65	FLURITONE
I-1005	16 $\frac{1}{4}$ "	19 $\frac{1}{2}$ "	25	29	2.10	FLUFI
500	Non-Circular	15"	25	83	1.70	FLUFIHUN

PLASTER RINGS AND FRAMES

(Sprayed and Baked Aluminum Finish)



Cross Section
Applying to Plaster, Rings and Frames

When Permafectors are to be set flush in a plastered ceiling, our plaster rings and frames are a great convenience. They make possible a perfectly finished opening in the ceiling and provide the means of conveniently attaching the flush mounting ring, hinged ceiling roundel, louvers or built-in units.

The lather installs the rings or frames. The plasterer plasters flush with bottom. The finished job is stout, rigid and workmanlike.

PLASTER RINGS

(Sprayed and Baked Aluminum Finish)

Plaster Ring No.	DIMENSIONS			Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
	A	B	C				
1-B	11 $\frac{11}{16}$ " Dia.	10 $\frac{7}{8}$ " Dia.	9 $\frac{13}{16}$ " Dia.	25	12	\$0.80	PAYON
2-B	15 $\frac{7}{8}$ " Dia.	14 $\frac{13}{16}$ " Dia.	13 $\frac{3}{8}$ " Dia.	25	19	1.30	PATU
3-B	20" Dia.	18 $\frac{1}{2}$ " Dia.	17 $\frac{1}{4}$ " Dia.	10	5	2.45	PATRE
4-B	9 $\frac{7}{8}$ " Dia.	8 $\frac{13}{16}$ " Dia.	7 $\frac{13}{16}$ " Dia.	25	8	.70	PAFO
6-B	12 $\frac{7}{8}$ " Dia.	11 $\frac{7}{8}$ " Dia.	10 $\frac{7}{8}$ " Dia.	25	13	1.00	PASIK
8-B	14 $\frac{7}{8}$ " Dia.	13 $\frac{13}{16}$ " Dia.	12 $\frac{3}{4}$ " Dia.	25	18	1.20	PATET
10-B	18" Dia.	16 $\frac{7}{8}$ " Dia.	15 $\frac{1}{2}$ " Dia.	10	4	1.75	PATEN
11-B	9" Dia.	7 $\frac{7}{8}$ " Dia.	7" Dia.	25	10	.65	PALEL
28	7 $\frac{7}{8}$ " Dia.	6 $\frac{13}{16}$ " Dia.	5 $\frac{3}{4}$ " Dia.	25	10	.75	PLASTUATE
54	12 $\frac{3}{8}$ " Dia.	11 $\frac{5}{16}$ " Dia.	10 $\frac{1}{4}$ " Dia.	25	14	.85	PLASFOR
55-A	10 $\frac{7}{8}$ " Dia.	9 $\frac{13}{16}$ " Dia.	8 $\frac{3}{4}$ " Dia.	25	12	.80	PLASFI
77	9 $\frac{5}{8}$ " Dia.	8 $\frac{9}{16}$ " Dia.	7 $\frac{1}{4}$ " Dia.	25	11	.75	PLASEV
555	14 $\frac{7}{8}$ " Dia.	13 $\frac{13}{16}$ " Dia.	12 $\frac{3}{4}$ " Dia.	25	18	1.20	PLASFIFTY
C-500	16 $\frac{1}{8}$ " Dia.	15" Dia.	13 $\frac{3}{4}$ " Dia.	25	20	1.30	PLASEFIHUN

PLASTER FRAMES (Square)

GR-50	18 $\frac{1}{2}$ " Square	17 $\frac{1}{4}$ " Square	15 $\frac{3}{4}$ " Square	10	14	2.00	GRAFI
GR-30	14 $\frac{1}{2}$ " Square	13 $\frac{1}{4}$ " Square	12" Square	10	14	1.65	GRATI
GR-10	12 $\frac{3}{4}$ " Square	11 $\frac{1}{2}$ " Square	10 $\frac{1}{4}$ " Square	25	13	1.50	GRATEN

PERMAFLECTOR COLOR-LITES

GLASS COLOR-LITES (For External Mounting)

(Frames Sprayed and Baked Aluminum Finish)

Description—Consist of retainer frame with coiled springs and one pressed glass roundel in any of the colors listed.

A permanent color filter not subject to the faults of gelatines which fade, shrink and wrinkle. To attach merely hook the springs in holes of adapter or holder; to remove, unhook. Neither lamp nor Permaflector need be removed.

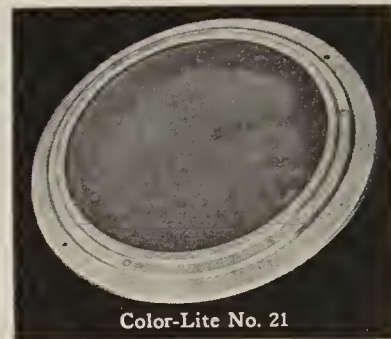


Color-Lite No. 2

GLASS COLOR-LITES (For Flush Mounting)

(Frames Sprayed and Baked Aluminum Finish)

Description — Consist of frame which may be attached to flush mounting ring by means of knurled head screws, and one pressed glass roundel in any of the colors listed. These Color-Lites equipped with uncolored stippled roundel, used with flush mounted reflectors, make an inexpensive substitute for Hinged Ceiling Roundels.



Color-Lite No. 21

COLOR-LITES (For External Mounting)

Color-Lite No.	Frame Dia.	Dia. of Glass Roundel Only	STANDARD COLORS AVAILABLE	Standard Quantity	Weight Approx. Lbs.	Retail Price Each
2	10 $\frac{1}{8}$ "	9 $\frac{7}{16}$ "	Red-Blue-Green-Amber-Moonlight	7	21	\$2.25
6	8 $\frac{5}{8}$ "	8"	Red-Blue-Green-Amber-Moonlight	10	15	2.00
8	13 $\frac{5}{8}$ "	13"	Red-Blue-Green-Amber	5	21	9.75
10	11 $\frac{3}{4}$ "	10 $\frac{3}{4}$ "	Red-Blue-Green-Amber	7	22	5.00
12-A	4 $\frac{3}{4}$ "	4 $\frac{3}{16}$ "	Red-Blue-Green-Amber	36	15	1.25
16	7 $\frac{1}{4}$ "	6 $\frac{1}{2}$ "	Red-Blue-Green-Amber-Moonlight	12	11	1.50

COLOR-LITES (For Flush Mounting)

21	11 $\frac{7}{8}$ "	9 $\frac{7}{16}$ "	Red-Blue-Green-Amber-Moonlight	7	21	\$2.25
41	9"	6 $\frac{1}{2}$ "	Red-Blue-Green-Amber-Moonlight	12	11	1.35
61	10 $\frac{3}{8}$ "	8"	Red-Blue-Green-Amber-Moonlight	10	15	2.00

DAYLIGHT COLOR-LITES (For External Mounting)

Color-Lite No.	Frame Dia.	Dia. of Glass Roundel Only	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
2-DB	10 $\frac{1}{8}$ "	9 $\frac{7}{16}$ "	7	21	\$3.75	COLORTUDA
6-DB	8 $\frac{5}{8}$ "	8"	10	15	3.40	COLOSIDA
10-DB	11 $\frac{3}{4}$ "	10 $\frac{3}{4}$ "	7	22	6.25	COLOTEDA
12-ADB	4 $\frac{3}{4}$ "	4 $\frac{3}{16}$ "	36	15	2.15	COLTWELDA
16-DB	7 $\frac{1}{4}$ "	6 $\frac{1}{2}$ "	12	11	2.25	COLEXDA

DAYLIGHT COLOR-LITES (For Flush Mounting)

21-DB	11 $\frac{7}{8}$ "	9 $\frac{7}{16}$ "	7	21	\$3.75	TUONEDA
41-DB	9"	6 $\frac{1}{2}$ "	12	11	2.10	FORUNDA
61-DB	10 $\frac{3}{8}$ "	8"	10	15	3.40	SIXONEDA

CODE TABLE FOR ABOVE COLOR-LITES

Color-Lite No.	RED	BLUE	GREEN	AMBER	MOONLIGHT	UNCOLORED STIPPLED
2	COLTURED	COLTUBLUE	COLTUGREEN	COLTUAMB	COLTUMOON	COLTUCLEAR
6	COLSIRED	COLSIBLUE	COLSIGREEN	COLSIAMB	COLSIMOON	COLSICLEAR
8	COLAYRED	COLAYBLUE	COLAYGREEN	COLAYAMB	...	COLAYCLEAR
10	COLENRED	COLENBLUE	COLENGREEN	COLENAMB	...	COLENCLEAR
12-A	COLELRED	COLELBLUE	COLELGREEN	COLELAMB	...	COLELCLEAR
16	COLEXRED	COLEXBLUE	COLEXGREEN	COLEXAMB	COLEXMOON	COLEXCLEAR
21	TUONRED	TUONBLUE	TUONGREEN	TUONAMB	TUONMOON	TUONCLER
41	FORUNRED	FORUNBLUE	FORUNGREEN	FORUNAMB	FORUNMOON	FORUNCLEAR
61	SIXONRED	SIXONBLUE	SIXONGREEN	SIXONAMB	SIXONMOON	SIXONCLER

PERMAFLECTOR COLOR-LITES F SERIES



DESCRIPTION—Pressed glass roundels for use with Permaflexor Floodlights, Luminaires, Color-Lite frames and other colored lighting applications

When used in floodlight, roundel shall be installed inside unit under protection of heat resisting glass cover.

Color-Lite No.	Diameter	STANDARD COLORS AVAILABLE	Standard Quantity	Weight Approx. Lbs.	Retail Price Each
F- 2	8"	Red-Blue-Green-Amber-Moonlight	10	13	1.40
F- 4	9 ⁷ / ₁₆ "	Red-Blue-Green-Amber-Moonlight	10	18	1.40
F- 7	5 ¹ / ₂ "	Red-Blue-Green-Amber-Moonlight	60	26	.55
F- 8	6 ¹ / ₂ "	Red-Blue-Green-Amber-Moonlight	20	12	.75
F- 9	8 ³ / ₈ "	Red-Blue-Green-Amber-Moonlight	20	25	1.40
F-10	10 ³ / ₄ "	Red-Blue-Green-Amber	7	20	4.00
F-12	4 ³ / ₁₆ "	Red-Blue-Green-Amber	50	16	.50
F-13	13"	Red-Blue-Green-Amber	5	19	7.50

CODE TABLE FOR ABOVE COLOR-LITES

Color-Lite No.	RED	BLUE	GREEN	AMBER	MOONLIGHT
F- 2	EFTURED	EFTUBBLUE	EFTUGREEN	EFTUAMB	EFTUMOON
F- 4	EFFORED	EFFOBLUE	EFFOGREEN	EFFOAMB	EFFOMOON
F- 7	EFSEVRED	EFSEVBLUE	EFSEVGREEN	EFSEVAMB	EFSEVMOON
F- 8	EFATERED	EFATEBLUE	EFATEGREEN	EFATEAMB	EFATEMOON
F- 9	EFNINRED	EFNINBLUE	EFNINGREEN	EFNINAMB	EFNINMOON
F-10	EFTENRED	EFTENBLUE	EFTENGREEN	EFTENAMB
F-12	EFTELRED	EFTELBLUE	EFTELGREEN	EFTELAMB
F-13	EFSIRRED	EFSIRBLUE	EFSIRGREEN	EFSIRAMB

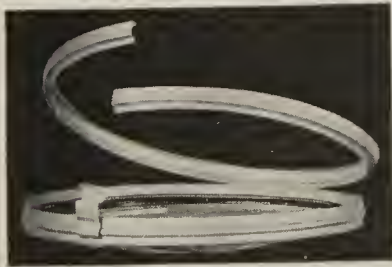
DAYLIGHT GLASS ROUNDELS

Color-Lite No.	Diameter	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
F- 2DB	8"	10	13	\$2.80	COLETUDA
F- 4DB	9 ⁷ / ₁₆ "	10	18	3.00	COLFORDA
F- 7DB	5 ¹ / ₂ "	60	26	1.35	COLOSEVDA
F- 8DB	6 ¹ / ₂ "	20	12	1.50	COLOFODAY
F-10DB	10 ³ / ₄ "	7	20	4.75	COTTEDAGLA
F-12DB	4 ³ / ₁₆ "	50	16	1.40	COTWEDAGLA

COLOR-LITE NO. 4-A (Glass)

(Frames Sprayed and Baked Aluminum Finish)

Description—An improved design of Color-Lite. For use with Permaflexors Nos. 29, 73, P-75-A, P-151, P-101, P-201, E-75, I-60, Interior Flood No. WF-100.



Color-Lite No. 4-A

Standard Quantity—12
Retail Price, Each.....\$1.75

Weight, Approx. 11 lbs.

It consists of a split ring which closely fits around the rim of Permaflexor. The colored glass roundel sets in frame hinged to the split ring. A spring clasp holds the cover closed.

Colored roundel is fastened in cover ring by a split wire ring which fits in a groove in the cover rim. Diameter 6³/₄ in.

COLOR-LITE NO. 4-ADB (Glass)

Description—Same as Color-Lite No. 4-A except it is equipped with inside stippled daylight glass roundel.

Standard Quantity—12
Weight, Approx. 11 lbs.
Retail Price, Each.....\$2.50

Code:

Color-Lite No. 4-ADBCOLOFOADAB

Color-Lite No. 4-A, RedCOLFORED

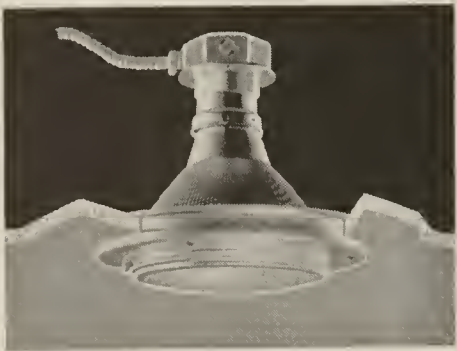
Color-Lite No. 4-A, BlueCOLFOBLUE

Color-Lite No. 4-A, GreenCOLFOGREEN

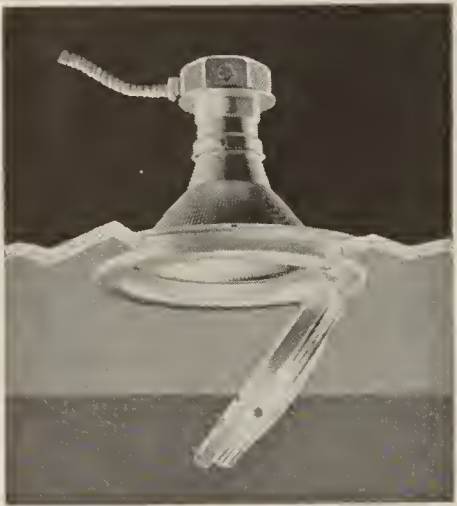
Color-Lite No. 4-A, AmberCOLFOAMB

Color-Lite No. 4-A, MoonlightCOLOFOMOON

Color-Lite No. 4-A, Uncolored stippledCOLFOCLEAR



Hinged Ceiling Roundel
Installed with Permaflexor
CLOSED POSITION



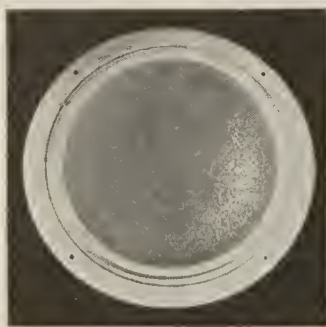
OPEN POSITION
For Servicing



Hinged Concentric
Louver—Closed Position



Hinged Concentric
Louver—Open Position



Ceiling Roundel
(Not Hinged)

HINGED CEILING ROUNDELS

(Frames Sprayed and Baked Aluminum Finish)

Here are illustrated the new Permaflexor streamlined style hinged ceiling roundels for use in recessing Permaflexors in the ceiling. The ceiling flange attaches directly to the ceiling with screws or to the plaster ring when used. The roundel frame attaches to the ceiling flange by means of a concealed hinge and is held in place with two catches, which when released permits the roundel to swing open freely.

The roundel is slightly convex, colorless, inside stippled glass and is firmly held in the frame by means of a split wire ring fitting in a groove in the frame. The roundel frame fits tightly into the ceiling flange when closed preventing leakage of light.

The Permaflexor recessed in the ceiling is seated on the ceiling flange eliminating waste of light in the space above the ceiling.

Wire guards are optional additional equipment. These fasten snugly to the hinge member and swing open with the hinged member when the unit is open. Under each Permaflexor listing here and before, we indicate the correct hinged ceiling roundel to be used therewith.

Hinged Ceiling Roundel Cat. No.	Frame Dia.	Glass Dia.	Dia. Hole in Ceiling	Plaster Ring (Optional)	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	Code
1-B	11 1/4"	8 3/8"	9 3/4"	1-B	8	21	\$3.75	RONE
2-B	15 1/4"	12"	13 3/8"	2-B	4	28	8.50	ROTU
3-B	19 1/2"	15 3/4"	17 1/4"	3-B	5	38	15.00	ROTRE
4-B	9 1/4"	6 1/2"	7 7/8"	4-B	10	16	3.00	ROFO
6-B	12 1/4"	9 7/16"	10 3/4"	6-B	8	28	4.60	ROSIK
7-B	11 1/4"	8 3/8"	9 3/4"	1-B	8	21	3.75	ROSEV
8-B	14 1/4"	10 3/4"	12 1/2"	8-B	10	28	5.00	ROATE
9-B	15 1/4"	12"	13 3/8"	2-B	4	28	8.50	RONIN
10-B	17 1/2"	13 3/4"	15 1/2"	10-B	5	29	11.00	ROTEN
11-B	8 1/4"	5 1/2"	7"	11-B	10	14	2.75	ROLEV

HINGED CONCENTRIC LOUVERS

(Sprayed and Baked Aluminum Finish)

Hinged concentric louvers are similar and serve a similar purpose as the hinged ceiling roundels. The construction is the same except that the hinged member carries concentric louver vanes instead of the roundel. Louver vanes are stepped from the center outward giving a slightly convex contour to the assembly similar to the roundels.

The louvers serve the purpose of concealing the light source from normal viewing angles and when viewed from a distance and at relatively flat angles give the illusion of luminous glass. Louvers permit the sharply downward distribution from the Permaflexors to pass through between vanes with but slight loss. At the high angles they cut off completely and for this reason are preferred by many.

Since louvers also provide mechanical protection for the Permaflexor, wire guards are unnecessary. Under each Permaflexor listing here and before, we indicate the correct hinged concentric louver to be used therewith.

Hinged Concentric Louver Cat. No.	Frame Dia.	Number Vanes Included	Height of Vanes	Dia. Hole in Ceiling	Plaster Ring (Optional)	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
1-B	11 1/4"	4	3/4"	9 3/4"	1-B	10	8	\$3.75	LUNE
2-B	15 1/4"	5	1"	13 3/8"	2-B	6	10	5.50	LUTU
3-B	19 1/2"	9	1 1/8"	17 1/4"	3-B	5	26	10.75	LUTRE
4-B	9 1/4"	3	3/4"	7 7/8"	4-B	12	11	3.00	LUFO
6-B	12 1/4"	4	1"	10 3/4"	6-B	10	18	4.25	LUSIK
7-B	11 1/4"	4	3/4"	9 3/4"	1-B	10	8	3.75	LUSEV
8-B	14 1/4"	6	3/4"	12 1/2"	8-B	10	19	4.50	LUATE
9-B	15 1/4"	5	1"	13 3/8"	2-B	6	10	5.50	LUNIN
10-B	17 1/2"	8	1 1/8"	15 1/2"	10-B	5	20	7.00	LUTEN
11-B	8 1/4"	3	3/4"	7"	11-B	10	10	2.75	LULEV

CEILING ROUNDELS (Not Hinged)

(Frames Sprayed and Baked Aluminum Finish)

Here are listed ceiling roundels which do not have a hinged member. They consist of a single frame in which the colorless stippled glass roundel is mounted. For access to the lamp and reflector it is necessary to remove the entire roundel. The Permaflexor must be supported from the appropriate flush mounting ring to which the ceiling roundel frame is attached by means of knurled head screws.

For each Permaflexor listed here and before, there is indicated the ceiling roundel (not hinged) to be used therewith.

Ceiling Roundel Cat. No.	Frame Dia.	Glass Dia.	For Use With Flush Ring No.	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
21	11 7/8"	9 7/16"	54, C-201, I-201	7	21	\$2.25	TUONCLER
41	9"	6 1/2"	73, 77	12	11	1.35	FORUNCLEAR
62	10 3/8"	8 3/8"	55, C-100	10	15	2.00	SIKTU
81	14 1/4"	12"	C-300, E-500, 555	6	21	6.60	ATONECLEAR
91	19 7/8"	15 3/4"	I-1005-A	4	30	10.50	NINONCLEAR

HEAT-RESISTING GLASS ROUNDELS

Diameter	Type	Shape	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
8"	Clear	Convex	10	13	\$2.00	ATKL
	Stippled	Convex	10	13	2.00	ATSTIP
8 $\frac{3}{8}$ "	Stippled	*Convex	10	10	2.00	ATRIST
9 $\frac{7}{16}$ "	Clear	Convex	10	18	3.00	NINKL
	Stippled	Convex	10	18	3.00	NINSTIP
	Dioptric	Pie Plate	12	24	3.00	NINDIOP
10 $\frac{3}{4}$ "	Clear	Convex	7	20	4.50	TENTREK
	Stippled	Convex	7	20	4.50	TENTREKST
12"	Clear	Convex	6	20	5.50	TWELKL
	Stippled	*Convex	10	23	5.50	TWELSTIP
	Spread	Convex	6	20	5.50	TWELSPRED
13 $\frac{3}{4}$ "	Stippled	*Convex	5	21	6.60	TERTESTIP
15 $\frac{3}{4}$ "	Stippled	*Convex	4	22	8.00	RONTREGLA
	Clear	*Convex	4	22	8.00	RONTREKL
18 $\frac{3}{4}$ "	Clear	*Convex	1	14	14.00	ATENKL
	Stippled	*Convex	1	14	14.00	ATENSTIP

* New Style Shallow Convex.

NON-HEAT-RESISTING GLASS ROUNDELS

4 $\frac{3}{16}$ "	Stippled	Convex	50	16	.50	RONFIGLA
5 $\frac{1}{2}$ "	Stippled	Convex	60	26	.50	EFSEVCLEAR
6 $\frac{1}{2}$ "	Stippled	Convex	20	12	.75	NOCOLFOGLA
8"	Stippled	Convex	10	13	1.40	COLSIGLA
8 $\frac{3}{8}$ "	Stippled Prismatic	*Convex	10	10	1.40	RONDONEGLA
		Flat	10	14	1.40	RONPRIS
9 $\frac{7}{16}$ "	Stippled	*Convex	10	18	1.40	NOCOLTUGLA
10 $\frac{3}{4}$ "	Stippled	*Convex	10	18	1.85	TENSTIP

* New Style Shallow Convex.

SQUARE GLASS PLATES

Catalog No.	Size In Inches	Type	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
*1	13 $\frac{5}{8}$ Square	Stippled	10	51	\$8.60	PLAITWON
5	10 $\frac{1}{2}$ Square	Stippled	10	34	2.50	PLAITFIVE
6	8 $\frac{1}{2}$ Square	Stippled	10	17	1.75	PLAITSIX

* Heat Resisting.



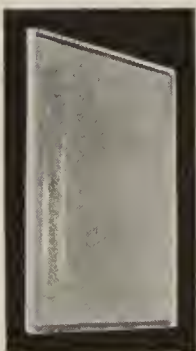
Clear



Stippled

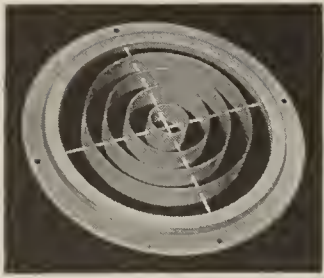


Spread



Square Glass Plate

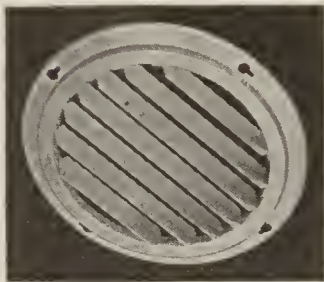




Concentric Louver



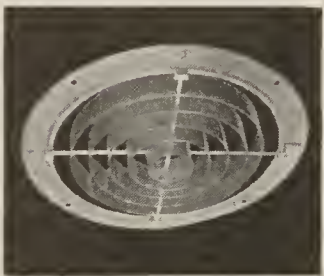
Eccentric Louver



Parallel Louver



Egg Crate Louver



Concentric Louver
No. RV-54 in closed
position.



Concentric Louver
No. RV-54 in open
position.

PERMAFLECTOR LOUVERS

(For Flush Mounting Service)
(Sprayed and Baked Aluminum Finish)

These louvers are used for concealing the light source when required, thus preventing undesirable glare at normal angles and when viewed from a distance give the illusion of luminous glass. Each louver comes equipped with four knurled-head screws for attaching to its companion flush ring as listed below. The correct louver to be used in conjunction with each Permaflexor is shown in the preceding pages.

CONCENTRIC LOUVERS

Louver Cat. No.	Frame Dia.	For Use With Flush Mtg. Ring No.	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
FM-28-C	7 1/4"	28	10	6	\$2.00	FEMTUATEC
FM-54-C	11 3/4"	54, C-201, I-201	10	16	2.25	FEMFITYFOC
FM-55-C	10 1/4"	55, C-100	10	11 1/2	2.00	FEMFITYFIC
FM-77-C	9"	73, 77	10	10 1/2	2.00	FEMSESEC
FM-505-C	19 7/8"	I-1005	4	17	7.00	FEMFIOFIC
FM-555-C	14 1/4"	555	10	23	2.85	FEMFIFIFIC
FME-500-C	14 1/4"	E-500, C-300	10	22	3.15	FEMEFIHUC
FMC-500-C	15 3/4"	C-500	10	25	3.15	FEMSEFIHUC

EGCENTRIC LOUVERS

FM-77-CA	9"	73, 77	10	10 1/2	2.00	FEMSESECA
FM-88-CA	10 1/4"	55	10	11 1/2	2.25	FEMATATCA
FM-99-CA	11 3/4"	54	10	16	2.60	FEMNINICA
FM-555-CA	14 1/4"	555	10	23	2.85	FEMFIFIFICA

PARALLEL LOUVERS

FM-54	11 3/4"	54, C-201, I-201	10	16	2.25	FEMFIFOR
FM-55	10 1/4"	55, C-100	10	11 1/2	2.00	FEMFIFI
FM-77	9"	73, 77	10	10 1/2	2.00	FEMSEVSEV
FM-555	14 1/4"	555	10	23	2.85	FEMFIFIFI
FME-500	14 1/4"	E-500, C-300	10	22	4.50	FEMEFIHUN

EGG-CRATE LOUVERS

FEC-100	10 1/4"	55, C-100	10	13 1/2	3.10	FEMEGONE
FEC-200	11 3/4"	54, C-201, I-201	10	18	4.20	FEMEGTU
FEC-300	14 1/4"	E-500, C-300	10	24	4.80	FEMEGTRE

CONCENTRIC LOUVERS (Removable Concentric Center Type)

(For Flush Mounting Service)
(Sprayed and Baked Aluminum Finish)

These louvers consist of a combined louver and flush mounting ring and feature a simple quick method of removing the vanes for lamp maintenance without detaching flush ring.

Concentric Louver Cat. No.	Frame Dia.	Plaster Ring Optional	Dia. Hole in Ceiling	For Use With Permaflexor No.	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	Code
RV-54	11 5/8"	54	9 3/4"	E-230, 105	10	14	\$2.67	REVO
RV-55	10 1/8"	55-A	8 3/4"	E-150, 110, I-75	10	11	2.37	REVI
RVC-100	10"	55-A	8 3/8"	C-100, C-101	10	11	2.37	REVEC
RVE-500	14 1/8"	555	12 1/4"	E-500	10	20	4.30	REVE

CONCENTRIC CENTERS (For Housed Permaflexors)

(For External Mounting Service)
(Sprayed and Baked Aluminum Finish)

These louvers consist of concentric vanes with cross wires for use with externally housed Permaflexor and are easily removable for lamp maintenance.

Concentric Centers Cat. No.	Number Vanes Included	Height of Vanes	For Use With Permaflexor No.	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
RV-505-S	9	1 1/8"	I-505-S, I-1005-S	10	25	\$2.65	REVFIS
RV-500-S	6	1 1/8"	E-500-S	10	15	1.45	REVFUN
RV-230-S	5	1 1/8"	E-230-S	10	9	1.15	REVTUS



PERMAFLECTOR LOUVERS

(For External Mounting Service)
(Sprayed and Baked Aluminum Finish)

The EM style louvers are used for concealing reflecting surfaces and lamps of exposed Perma-flector equipment. They attach by means of coiled springs similar to colorlites. Under each Perma-flector here and before listed we indicate which EM louvers may be used therewith.

CONCENTRIC LOUVERS



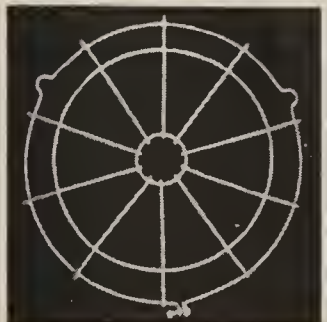
Concentric Louver



Eccentric Louver



Parallel Louver



Wire Guard



Wire Guard Used
With Hinged Ceiling
Roundel
Open Position



Hinged Wire Guard
as Used With
Housed Unit

Louver Cat. No.	Frame Dia.	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
EM-54-C	10 $\frac{1}{4}$ "	10	15	\$2.25	EMFITYFOC
EM-55-C	8 $\frac{3}{4}$ "	10	11 $\frac{1}{2}$	2.00	EMFITYFIC
EM-77-C	7 $\frac{1}{4}$ "	10	10 $\frac{1}{2}$	2.30	EMSESEC
EM-555-C	13 $\frac{3}{4}$ "	10	23	2.85	EMFIFIFIC
EME-500-C	12 $\frac{1}{8}$ "	10	22	2.85	EMEFIHUC

ECCENTRIC LOUVERS

EM-77-CA	7 $\frac{1}{4}$ "	10	10 $\frac{1}{2}$	2.30	EMSESECA
EM-88-CA	8 $\frac{3}{4}$ "	10	11 $\frac{1}{2}$	2.30	EMATATCA
EM-99-CA	10 $\frac{1}{4}$ "	10	15	2.60	EMNINICA
EM-555-CA	13 $\frac{3}{4}$ "	10	23	2.85	EMFIFIFICA

PARALLEL LOUVERS

EM-54	10 $\frac{1}{4}$ "	10	15	2.25	EMFIFOR
EM-55	8 $\frac{3}{4}$ "	10	11 $\frac{1}{2}$	2.00	EMFIFI
EM-77	7 $\frac{1}{4}$ "	10	10 $\frac{1}{2}$	2.30	EMSEVSEV
EM-555	13 $\frac{3}{4}$ "	10	23	2.85	EMFIFIFI
EME-500	12 $\frac{1}{8}$ "	10	22	2.85	EMEFIHUN

PERMAFLECTOR WIRE GUARDS

(Sprayed and Baked Aluminum Finish)

Here are the wire guards for use with hinged ceiling roundels and ceiling roundels (not hinged). They clamp firmly to hinged member of hinged ceiling roundel and swing open with the roundel when the units are open. Under each Perma-flector and hinged ceiling roundel here and before listed, the correct wire guard is indicated.

Wire Guard Cat. No.	Inside Dia.	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
WG-1	8 $\frac{1}{2}$ "	10	5	\$1.50	GARON
WG-2	12 $\frac{1}{8}$ "	10	7	1.75	GARTU
WG-3	15 $\frac{7}{8}$ "	5	8	2.00	GARRE
WG-4	6 $\frac{5}{8}$ "	10	4	1.40	GARFO
WG-6	9 $\frac{9}{16}$ "	10	5	1.60	GARSK
WG-8	10 $\frac{7}{8}$ "	10	6	1.60	GARAT
WG-10	13 $\frac{7}{8}$ "	10	10	1.75	GARTEN

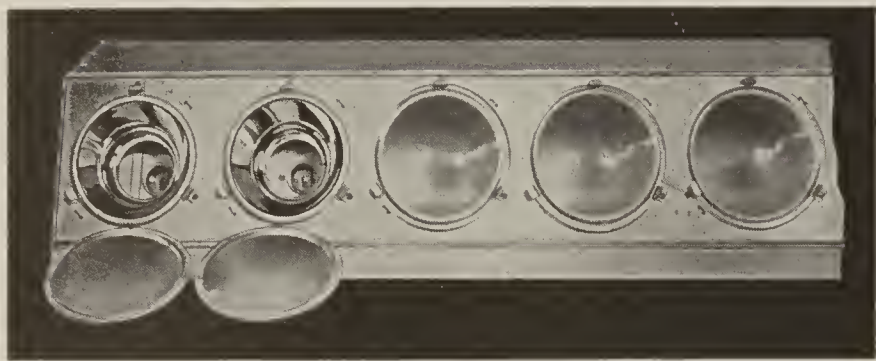
HINGED WIRE GUARDS

(For Use With External Housed Perma-flectors)
(Sprayed and Baked Aluminum Finish)

Here are listed hinged wire guards for use with externally mounted metal enclosed Perma-flector units Series No's. E-230-S, E-500-S, I-505-S, I-1005-S. They clamp over the bottom bead of the housing and by the release of a catch swing free and give access to the lamps.

Wire Guard Cat. No.	Inside Dia.	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	CODE
WG-31	9 $\frac{3}{4}$ "	10	5	\$1.80	GARION
WG-32	12 $\frac{1}{4}$ "	10	7	2.00	GARITU
WG-33	16 $\frac{3}{8}$ "	5	9	2.25	GARITRE

PERMAFLECTOR THEATRE FOOTLIGHTS



FOOTLIGHT NO. 5-A

Pittsburgh Footlight No. 5-A is completely enclosed, self-contained, dust-tight. The convex glass roundels are easily removed to renew lamps. Front plate containing roundels is hinged in sections to get at the wiring.

When specifying No. 5-A Pittsburgh Footlight, architects should detail as indicated, thus requiring the general contractor to build the stage so that the Pittsburgh Footlight will accurately fit into place.

Sold complete with Permaflectors No. C-60 spaced 6 inches on centers and one F-7 Color-Lite for each outlet. (Not Wired)

Color-Lite—No. F-7 Red, Blue and uncolored stippled in equally divided quantities furnished as standard colors. Also available in Green, Amber or Moonlight when specified.

Finish: Sprayed and baked aluminum.

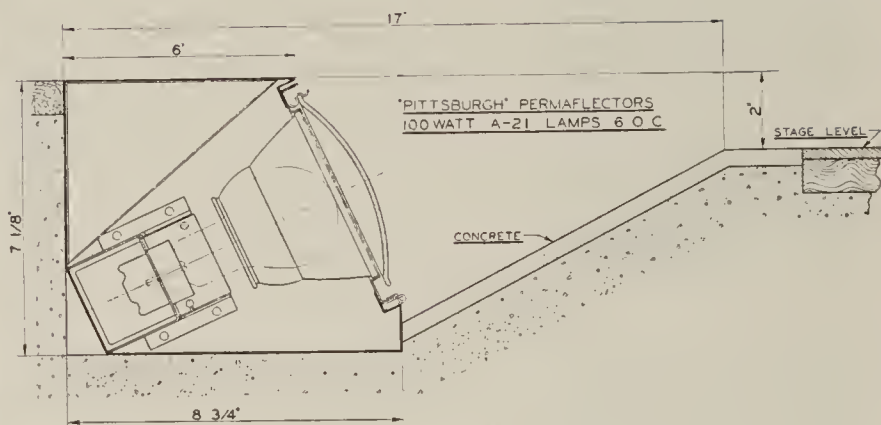
Lamp Size—Use 100 watt A-21.

Standard Quantity—One 10 ft. length **Weight**, Approx. 88 lbs.

Note: As many 10' 0" lengths are bolted together as may be required. When total required length is not evenly divisible by 10' 0", one section is made of special length.

Retail Price—per foot (Not Wired).....\$12.00

Code: Footlight No. 5-A Complete (Not Wired)....FUTOFIVAYE
Permaflector No. C-60.....SEESIXTY



FOOTLIGHT NO. 5-A

(For Curved Trough)

Although Footlight No. 5-A is a straight line footlight, it can be built for installation in curved troughs. For this service it is subdivided into a number of short lengths, each such length cut on a mitre and the individual lengths fastened together.

This footlight is available on special order only.

To build a footlight for this service, we need to know the length of the arc of the trough and the radius of curvature to the outside perimeter. The footlight is subdivided in short enough sections so that each section comes rather close to the arc of the circle. Therefore, architect or stage builder must provide additional width for seating the footlight in the curved trough.

While Footlight No. 5-A is shipped not wired and can be conveniently wired on the job, Footlight No. 5-A when built for use in curved trough must be wired at the factory. It would be very complicated and difficult to wire on the job.

Color-Lite—No. F-7 Red, Blue and uncolored stippled in equally divided quantities furnished as standard colors. Also available in Green, Amber or Moonlight when specified.

Finish: Sprayed and baked aluminum.

Lamp Size—Use 100 watt A-21.

Retail Price—Per foot wired for 3—8 circuits.....\$17.50

PERMAFLECTOR PORTABLE FOOTLIGHTS

Portable footlight designed for show window lighting service, but also useful for amateur stage productions and other displays.

Fabricated of 20 gauge sheet steel. Not wired.

Color-Lite No. 12-A may be fitted on Permaflectors when desired. Color-Lites available with red, amber, green, blue or uncolored stippled roundels.

Finish: Sprayed and baked aluminum.

PORTABLE FOOTLIGHT NO. 12

Standard Length 10 Feet, with 15 Permaflectors No. P-76, 8 inches on centers.

Lamp Size—Use 100 watt A-21.

Standard Quantity—1 Length. **Weight**, Approx. 60 lbs.

Sold in Standard Lengths of 10 feet, less Color-Lites (Not Wired). Also sold in special lengths to order.

Retail Price, Each Length.....\$90.00

Code: Standard Length.....FUTONTU

PORTABLE FOOTLIGHT NO. 13

Standard Length 10 Feet, with 10 Permaflectors No. P-76, 12 inches on centers.

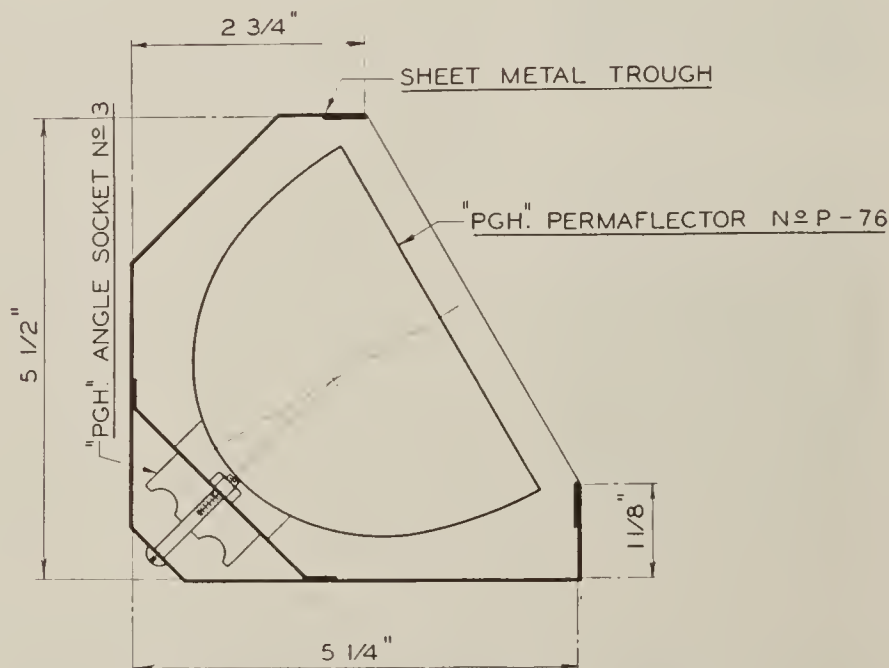
Lamp Size—Use 100 watt A-21.

Standard Quantity—1 Length. **Weight**, Approx. 58 lbs.

Sold in Standard Lengths of 10 feet, less Color-Lites (Not Wired). Also sold in special lengths to order.

Retail Price, Each Length.....\$70.00

Code: Standard Length.....FUTONTRE



Cross Section of Footlight No. 12 and No. 13

PERMAFLECTORS FOR THEATRE LIGHTING

In the theatre, lighting plays a dramatic part in joining with architectural form to create the desired atmosphere. Here, the scheme of the structure in general should reflect colorfulness, joy and imaginative fancy. To create these moods it is necessary to bring into play many different types of Permaflector equipment such as cove reflectors, floodlights, recessed units and fixtures. Special lighting effects with this equipment requires individual consideration on each job at the time of design.

PERMAFLECTOR THEATRE BORDER LIGHTS



BORDER LIGHT NO. 6

A completely enclosed, self-contained unit, built of 20 gauge galvanized iron, aluminum finish. Permaflectors No. C-101 set in metal bottom plate on 9" centers. Glass Color-Lites No. F-2 set in hinged metal plate for easy access to lamps.

Made in standard lengths of 9 feet with 12 outlets 9" on centers. Strap steel guards 36" on centers. Wiring box installed at center or either end as specified. Terminal connection block furnished in wiring box for convenience of installation and maintenance.

Furnished complete as shown, unwired, but equipped with chain for attaching to pipe batten. Chains spaced 36" on centers.

We do not furnish pipe batten, strain insulator, flexible border light cable, lamps or rigging of any kind.

Color-Lite—No. F-2 Red, Blue and uncolored stippled in equally divided quantities furnished as standard colors.

Also available in Green, Amber or Moonlight when specified.

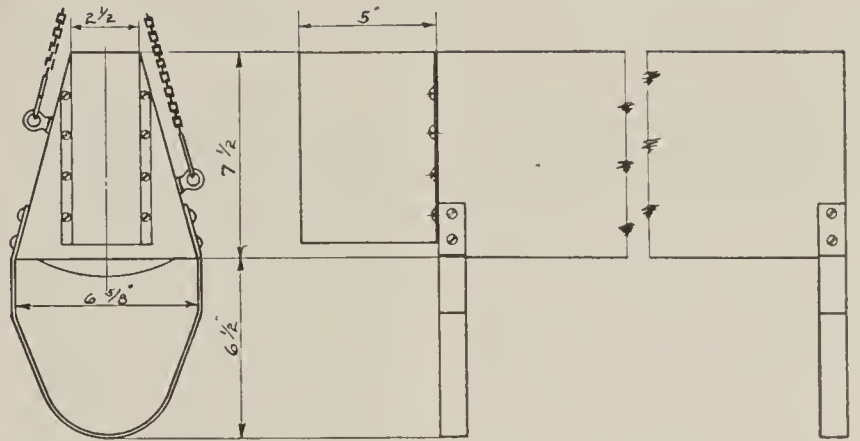
Lamp Size—Use 200 watt PS-30.

Standard Quantity—One 9 ft. length **Weight**, Approx. 150 lbs.

Note: As many standard 9' lengths are bolted together as may be required. When total length is not evenly divisible by 9', one section is made special to required dimension.

Retail Price, per foot (not wired).....\$18.00

Code: Border Light No. 6 Complete (not wired).....**BORLISIX**
Permaflector only No. C-101-GO.....**SEHUNDERUN**



BORDER LIGHT NO. 7

A completely enclosed, self-contained unit, built of 20 gauge galvanized iron, Aluminum external finish. Permaflectors No. C-60 snugly set in hinged bottom plate. Glass Color-Lites No. F-7 snap into clips which are tightly compressed by a hinged keeper ring.

Made in standard lengths of 7'-6" with 15 outlets spaced 6" on centers. Wiring box installed at center or either end, as specified. Terminal connection block furnished in wiring box for convenience of installation and maintenance.

Furnished complete as shown, unwired, but equipped with chain for attaching to pipe batten. Chains spaced 36" on centers.

We do not furnish pipe batten, strain insulator, flexible border light cable, lamps or rigging of any kind.

Color-Lites—No. F-7 Red, Blue and uncolored stippled in equally divided quantities furnished as standard colors.

Also available in Green, Amber or Moonlight when specified.

Lamp Size—Use 100 watt A-21.

Standard Quantity—One 7' 6" length **Weight**, Approx. 120 lbs.

Note: As many standard 7'-6" lengths are bolted together as may be required. When total length is not evenly divisible by 7'-6", one section is made special to required dimension.

Retail Price, per foot (not wired).....\$14.00

Code: Border Light No. 7 complete (not wired).....**BORLISEVE**
Permaflector only, No. C-60.....**SEESIXTY**



Architect—George Cunningham
Court Theatre, Wheeling, W. Va.
Permaflector Cove Lighting, Main Lobby



Court Theatre, Wheeling, W. Va.
Auditorium Lighted by concealed Permaflectors and Luminaires

PERMAFLECTOR LUMINAIRES

THE PERMAFLECTOR CONTROLS THE LIGHT



The nucleus of Permalector Luminaires—a Permalector



Permalector enclosed in luminaire bowl

The primary function of any lighting luminaire is to provide efficient control and distribution of the light flux from the lamp. The character of the metal bowl and hanger is of secondary importance. They are used merely to suspend the lamp into proper position and perform as an attractive enclosure for the Permalector. This is the basic idea inherent in every Permalector Luminaire regardless of its design. Actually, the Permalector is the nucleus of the unit and could efficiently control and distribute the light independently of the enclosing bowl. Consequently, users who buy Permalector Luminaires, whether they be high or low priced, always obtain efficient light control. Differences of Permalector Luminaire prices are due to variances in design and finish of enclosures and hangers.

Any method which places reliance on the enclosing bowl for performing the reflection and distribution of the light flux from the lamp will give results which vary according to the shape of the bowl and the material from which it is made.

The Permalector method is accurate and consistently efficient.

TYPES AND APPLICATION

Permalector Luminaires may be classified as four distinct types:

1. Totally indirect
2. Indirect with illuminated bowl
3. Indirect with minor direct lighting component
4. Direct with illuminated bowl

Each classification includes a number of designs reflecting various styles of modern decorative design.

Well balanced proportions, simplicity, graceful flowing lines and rich finishes make Permalector Luminaires beautifully modern. They harmonize exceedingly well with contemporary interiors and furnishings.

Permalector Luminaires may be used wherever efficient indirect lighting of the finest quality is desired. They are excellent for schools, offices, hospitals, retail stores, hotels, restaurants and many other commercial or public institutions.

DESCRIPTION OF FINISHES

The finishes which are skillfully applied to Permalector Luminaires are durable and attractive. The standard finish for each unit is listed in the specifications accompanying each luminaire.

Satin Aluminum . . . an etched, brushed and lacquered finish . . . a satin-like, diffuse surface.

Polished Aluminum . . . buffed to a high polish and lacquered.

Scratched Aluminum . . . emiered, brushed and lacquered . . . a grained finish of gleaming richness.

Light Ivory . . . a baked-on, heat resisting enamel of light tone . . . blends with ivory or off-white ceilings and walls.

In addition to the above standard finishes, each luminaire, wall urn and indirect lamp is available on **special order only** finished in a strikingly beautiful **Golden Bronze** at 10% additional cost.

INDIRECT CALCULATION

For the last decade or more indirect illumination has been widely accepted and extensively used as the finest quality of light available for eye comfort and conservation of eyesight. Therefore, most electrical contractors, lighting service specialists and engineers understand and are experienced in the design of such installations. The lamp manufacturing companies for years have published illumination design data from which the installation can be designed and we recommend that it be used.

The more limited rule of thumb data which we and other lighting equipment manufacturers have in the past supplied in our catalogs is insufficient as such data can only cover average conditions. When the actual conditions represent extremes such data gives misleading high or low results.

Complete indirect lighting layouts are available to our customers as a part of the Permalector Engineering Service as shown on Page Six. Consult your local Permalector Representative or write direct to our engineering headquarters in Pittsburgh.



Electrical Contractor—W. J. Zuck, Pittsburgh, Pa.
Architect—H. H. Lefkowitz, Pittsburgh, Pa.
N. Rice Drug Co., Pittsburgh, Pa.



Electrical Contractor—Sayre Electric Co.
Architect—Ackley, Bradley and Day, Pittsburgh, Pa.
Wellsville High School, Wellsville, Ohio.



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR LUMINAIRES

ADDITIONAL EQUIPMENT FOR USE WITH PERMAFLECTOR LUMINAIRES

HUSK EXTENSIONS

In a small room it is impossible to see the neck of a lamp where it is exposed in the space between the bottom of the husk and the top of the bowl. As a matter of fact, usually the husk itself is concealed. Therefore, there is no purpose in using a husk extension. In small rooms, we need all the efficiency possible and there isn't any purpose in wasting light in a husk extension.

On the other hand, in very large rooms the lamp neck comes in the range of vision if any portion thereof is exposed. For such installations we recommend the use of the husk extension. While some light is lost in such husk extensions, the coefficient of utilization of the entire installation for large rooms is considerably higher and hence we can afford to lose some light in the extension for the sake of a better appearing job.

The husk extension is not standard equipment with the luminaires shown herein. Some luminaires have full length one-piece husks. Others have partial length husks and with these the husk extension may be used. Husk Extension No. HE-1, illustrated in cross-section Sketch (A), snaps in position and it is not necessary to dismantle the fixture in any way in order to add the husk extension. Husk Extension No. HE-2, illustrated in cross-section Sketch (B), should be attached before the luminaire is installed to avoid dismantling the unit after installation. The proper husk extension is listed in the specifications accompanying each luminaire.

Catalog No.	Standard Quantity	Approximate Weight-lbs.	Retail Price Each	Code
HE-1	10	1	\$0.50	HEUN
HE-2	10	2	0.50	HETU

CANOPY COLLARS FOR CANOPY SWITCHES

Pittsburgh Reflector Company does not furnish canopy switches, and most of the canopies supplied are not equipped to accommodate a canopy switch. Where canopy switches are required additional canopy collars may be used. The collar is of larger diameter and a little more than one inch deep. The standard canopies seat themselves on the canopy collar as shown in the illustration. The canopy collar is equipped with $\frac{7}{8}$ " diameter knockout for insertion of canopy switch. We recommend the use of ten ampere size Levolver switch which is more rugged and is very desirable for use with 500 watt fixtures or less and is absolutely necessary for 750 and 1000 watt fixtures.

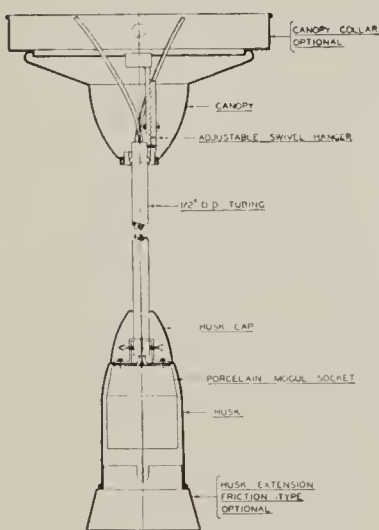
Canopy Collar No. CC-1 is illustrated in cross-section sketch (A).

The proper canopy collar is listed in the specifications accompanying each luminaire.

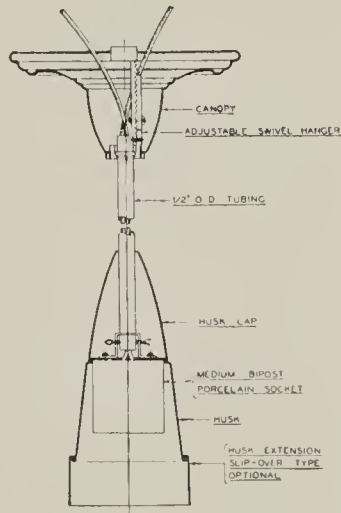
Catalog No.	Standard Quantity	Approximate Weight-lbs.	Retail Price Each	Code
CC-1	10	4	\$0.75	SEUN
CC-2	10	4	0.75	SETU

COLOR-LITES

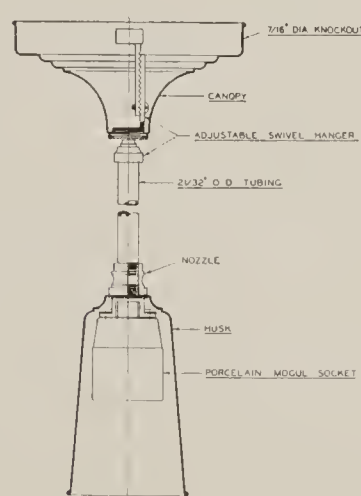
Certain Permaflexor luminaires which have luminous upper bowls may be beautifully tinted in colors of red, amber, light blue or dark blue by the installation of colored glass roundels, a patented construction. The color-lites are seated in the bottom of the Permaflexor and color the downward light which is reflected upwardly on the outer surface of the upper bowl, giving it the appearance of colored luminous glass. The color-lites available for each unit are listed in the specifications accompanying the luminaire.



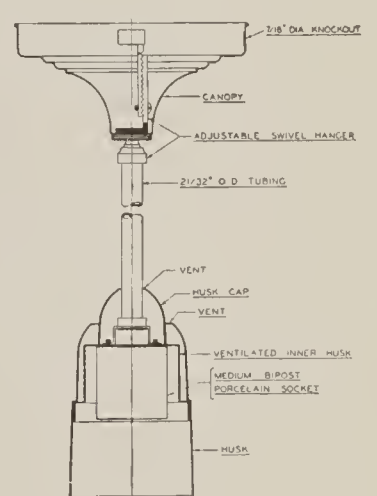
Permaflexor Stem Hanger with Canopy Collar No. CC-1 and Husk Extension No. HE-1.



Permaflexor Stem Hanger with Husk Extension No. HE-2 for 750-1000 watt Bipost Lamps.



Permaflexor Stem Hanger with long husk construction and large canopy. Requires no canopy collar or husk extension.



Permaflexor Stem Hanger with large ventilated husk for 750-1000 watt Bipost Lamps.

STEEL HANGERS

All Permaflexor Luminaire Stem Hangers are of the swivel type which permits the unit to hang straight even though the outlet box, stud or ceiling may not be level. The accompanying cross-section sketches show the construction of Permaflexor Stem Hangers and how easily and quickly they are wired and assembled.

WIRING AND ASSEMBLING

All Permaflexor Luminaires are shipped NOT ASSEMBLED and NOT WIRED. The correct length and proper gage special insulated wire is furnished. Any contractor familiar with luminaire installation can quickly and easily assemble, wire and install Permaflexor Luminaires.

MAINTENANCE

Permaflexors enclosed in Permaflexor Luminaires may be restored to their initial efficiency, regardless of their length of service, by merely wiping the reflecting surface with an ordinary damp cloth. No rubbing or special cleaning or polishing agents are required. It is not necessary to dismantle the unit.

TEN YEAR GUARANTEE

The Permaflexor Ten Year Guarantee as listed completely on Page Eight applies to all Permaflexors enclosed in Permaflexor Luminaires. This fact assures every user of Permaflexor Luminaires the greatest possible savings in maintenance, long-life and efficient performance.



PERMAFLECTOR INDIRECT LUMINAIRES



LUMINAIRE NOS. B-50

("B" Type, Totally Indirect)
Finished in Scratched Aluminum with Polished Edges
Available only with Stem Hanger



LUMINAIRES NOS. B-541, B-1041

("B" Type, Totally Indirect)
Finished in Scratched Aluminum
Available only with Stem Hanger

INDIRECT ILLUMINATION

This luminaire design has the beauty of simplicity of lines and contour. The glistening scratched aluminum finish takes on the colors of its surroundings by reflection of its surface. It is a design that fits in with most interiors very well.

This luminaire is spun of heavy gage first quality sheet aluminum and makes a very rich appearance.

An efficient Permaflector provides the light control.

Additional Equipment: At additional cost.

Husk Extension—No. HE-1.

Canopy Collar—No. CC-1.

INDIRECT ILLUMINATION

This luminaire design has all the style and simplicity that fits architecturally into the most modern of interiors. The glistening scratched aluminum finish adds a rich depth of style.

These luminaires are spun of heavy gage first quality sheet aluminum and make a very rich appearance.

An efficient Permaflector provides the light control.

Additional Equipment: At additional cost.

Canopy Collar—No. CC-1.

We recommend the use of Inside Frosted Lamps

Catalog No.	Lamp Size			Dia. of Bowl	Std. Suspension		Equipped with Permaflector	Standard Quantity	Weight Approx. Lbs.	*Retail Price Each	Code
	Watts	Type	Base		Top of Bowl to Ceiling	Overall					
B-50	300 500	PS-35 PS-40	Mogul	20"	30"	37 $\frac{1}{4}$ "	B-509	1	7 $\frac{1}{2}$	\$13.50	BEFIO
B-541	300 500	PS-35 PS-40	Mogul	21"	30"	37 $\frac{1}{8}$ "	B-501	1	17	25.50	BEFIFONE
B-1041	750 1000	PS-52 PS-52	Mogul	32"	36"	45"	B-1000	1	18	32.00	BETEFONE

*For shorter than standard suspension add \$0.30 cutting charge.

*For longer than standard suspension add \$0.05 per additional inch of suspension plus \$0.30 cutting charge.

 **PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA**

PERMAFLECTOR INDIRECT LUMINAIRES



LUMINAIRE NO. B-591

("B" Type, Totally Indirect)

Finished in Scratched Aluminum with Polished Edges
Available only with Stem Hanger

INDIRECT ILLUMINATION

Luminaire No. B-591 retains the decorative lines of the N-591 but the two bowls have been joined into a single unit, thereby sacrificing the luminous bowl effect.

This luminaire is spun of heavy gage first quality sheet aluminum and makes a very rich appearance.

An efficient Permalector provides the light control.

Additional Equipment: At additional cost.

Husk Extension—No. HE-1.

Canopy Collar—No. CC-1.



LUMINAIRE NO. N-591

("N" Type, Illuminated Bowl)

Finished in Scratched Aluminum with Polished Edges
Available only with Stem Hanger

INDIRECT ILLUMINATION

Luminaire No. N-591 is made up of two bowls, one mounted above the other. The upper bowl of horizontal shape is mounted just above the bullet-shaped bowl, allowing a subordinate spill of light to spread across the bottom of the upper bowl.

This luminaire is spun of heavy gage first quality sheet aluminum and makes a very rich appearance.

An efficient Permalector provides the light control.

Additional Equipment: At additional cost.

Husk Extension—No. HE-1.

Canopy Collar—No. CC-1.

We recommend the use of Inside Frosted Lamps

Catalog No.	Lamp Size			Dia. of Bowl	Std. Suspension		Equipped with Permalector	Standard Quantity	Weight Approx. Lbs.	*Retail Price Each	Code
	Watts	Type	Base		Top of Bowl to Ceiling	Overall					
B-591	300 500	PS-35 PS-40	Mogul	20"	30"	37 $\frac{1}{4}$ "	B-509	1	8	\$14.50	BEFININON
N-591	300 500	PS-35 PS-40	Mogul	20"	30"	37 $\frac{1}{4}$ "	B-509	1	8	15.50	ENFININON

*For shorter than standard suspension add \$0.30 cutting charge.

*For longer than standard suspension add \$0.05 per additional inch of suspension plus \$0.30 cutting charge.

PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA



PERMAFLECTOR INDIRECT LUMINAIRES



LUMINAIRES NOS. N-562, R-562, N-1062

("N" Type, Illuminated Bowl)

Finished in Satin Aluminum with Polished Edges

Available only with Stem Hanger

INDIRECT WITH DIRECT COMPONENT

These luminaires are excellent for store lighting. The direct lighting component adds materially to the effective illumination on the merchandise **without glare**.

These luminaires are spun of heavy gage first quality sheet aluminum and make a very rich appearance.

An efficient Permaflexor provides the light control.



LUMINAIRES NOS. N-562-C, R-562-C, N-1062-C

("N" Type, Illuminated Bowl)

Finished in Satin Aluminum with Polished Edges

Available only with Stem Hanger

INDIRECT WITH DIRECT COMPONENT

Same design as for N-562 except that the direct lighting component is directed through the louvered bottom member.

These luminaires are spun of heavy gage first quality sheet aluminum and make a very rich appearance. They fit well into the modern store interior.

An efficient Permaflexor provides the light control.

We recommend the use of Inside Frosted Lamps

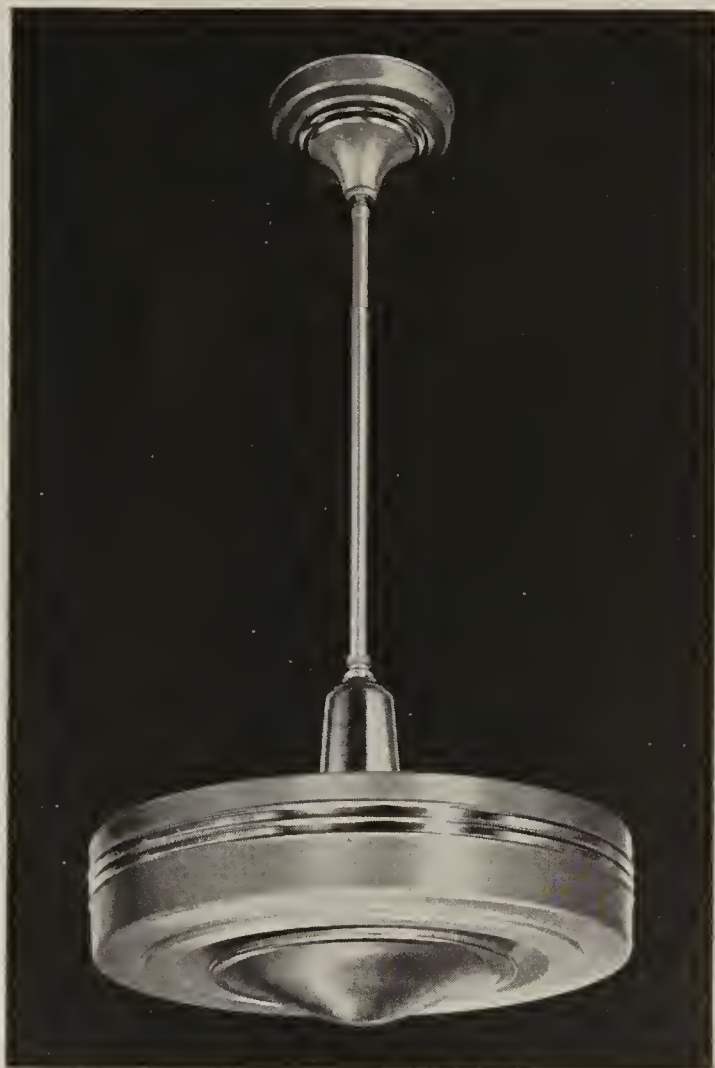
Catalog No.	Lamp Size			Dia. of Bowl	Std. Suspension		Equipped with Permaflexor	Standard Quantity	Weight Approx. Lbs.	*Retail Price Each	Code
	Watts	Type	Base		Top of Bowl to Ceiling	Overall					
N-562	300 500	PS-35 PS-40	Mogul	21"	30"	37"	B-507	1	27	\$26.00	ENFISIXTU
R-562	500 750 1000	T-20 T-24 T-24	Medium Bi-post	21"	36"	43"	B-507	1	27	30.50	ARFISIXTU
N-1062	750 1000	PS-52 PS-52	Mogul	28"	36"	45"	B-1007	1	41	43.30	ENTENSIXTU
N-562-C	300 500	PS-35 PS-40	Mogul	21"	30"	37½"	B-507	1	27	26.00	ENFISIXTIC
R-562-C	500 750 1000	T-20 T-24 T-24	Medium Bi-post	21"	36"	43½"	B-507	1	27	30.50	ARFISIXTIC
N-1062-C	750 1000	PS-52 PS-52	Mogul	28"	36"	45½"	B-1007	1	41	43.30	ENTENSITIC

*For shorter than standard suspension add \$0.30 cutting charge.

*For longer than standard suspension add \$0.05 per additional inch of suspension plus \$0.30 cutting charge.

 **PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA**

PERMAFLECTOR INDIRECT LUMINAIRES



LUMINAIRES NOS. N-561, R-561, N-1061

("N" Type, Illuminated Bowl)

Finished in Satin Aluminum with Polished Edges

Available only with Stem Hanger

INDIRECT ILLUMINATION

Exceptionally beautiful shallow bowl luminaires of the luminous type. Very striking, especially when color lense is used to "color-light" the bowl.

These luminaires are spun of heavy gage first quality sheet aluminum and make a very rich appearance to the interiors of modern stores, offices and similar installations.

An efficient Permaflexor provides the light control.

Additional Equipment: At additional cost.

Color-Lites—No. F-7 for use with N-561 or R-561.

No. F-8 for use with N-1061.

LUMINAIRE NO. N-593

("N" Type, Illuminated Bowl)

Finished in Polished and Satin Aluminum

Available only with Stem Hanger

INDIRECT ILLUMINATION

The N-593 is the luminous bowl type and is made of spun aluminum. The unusually shaped upper bowl is designed and mounted to trap a subordinate spill of light thereby creating a translucent effect which resembles illuminated glass. Unit is richly finished in contrasting tones of polished and satin aluminum.

This luminaire is spun of heavy gage first quality sheet aluminum.

An efficient Permaflexor provides the light control.

Additional Equipment: At additional cost.

Husk Extension—No. HE-1.

Canopy Collar—No. CC-1.

We recommend the use of Inside Frosted Lamps

Catalog No.	Lamp Size			Dia. of Bowl	Std. Suspension		Equipped with Permaflexor	Standard Quantity	Weight Approx. Lbs.	*Retail Price Each	Code
	Watts	Type	Base		Top of Bowl to Ceiling	Overall					
N-561	300 500	PS-35 PS-40	Mogul	21"	30"	37"	B-507	1	23	\$24.00	ENFISIXON
R-561	500 750 1000	T-20 T-24 T-24	Medium Bi-post	21"	36"	43"	B-507	1	23	28.50	ARFISIXON
N-1061	750 1000	PS-52 PS-52	Mogul	28"	36"	45"	B-1007	1	41	42.00	ENTENSIXON
N-593	300 500	PS-35 PS-40	Mogul	20"	30"	37"	B-509	1	14	18.00	EFIRE

*For shorter than standard suspension add \$0.30 cutting charge.

*For longer than standard suspension add \$0.05 per additional inch of suspension plus \$0.30 cutting charge.

PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA



PERMAFLECTOR INDIRECT LUMINAIRES



LUMINAIRES NOS. N-592-C, R-592-C

("N" Type, Illuminated Bowl)

Finished in Scratched Aluminum with Polished Edges

Available only with Stem Hanger

INDIRECT WITH DIRECT COMPONENT

Predominantly indirect but a minor portion of the light is directed downward through the louvered bottom member. This type of luminaire is often required for offices, stores and similar installations.

These luminaires are spun of heavy gage first quality sheet aluminum and make a very rich appearance.

An efficient Permaflexor provides the light control.

Additional Equipment: At additional cost.

Husk Extension—No. HE-1 for use with N-592-C.

No. HE-2 for use with R-592-C.

Canopy Collar—No. CC-1 for use with N-592-C or R-592-C.



LUMINAIRES NOS. B-621, A-621, B-1021

("B" Type, Totally Indirect)

Finished in Frosted Aluminum with Polished Edges

Available only with Stem Hanger

INDIRECT ILLUMINATION

Totally indirect luminaires of large diameter and shallow lines. The decorative bowl appeals to those desiring an ornamental design.

These luminaires are spun of heavy gage first quality sheet aluminum and makes a very rich appearance.

An efficient Permaflexor provides the light control.

Additional Equipment: At additional cost.

Husk Extension—No. HE-1 for use with B-621.

No. HE-2 for use with A-621.

We recommend the use of Inside Frosted Lamps

Catalog No.	Lamp Size			Dia. of Bowl	Std. Suspension		Equipped with Permaflexor	Standard Quantity	Weight Approx. Lbs.	*Retail Price Each	Code
	Watts	Type	Base		Top of Bowl to Ceiling	Overall					
N-592-C	300 500	PS-35 PS-40	Mogul	21"	30"	37"	B-507	1	21	\$22.50	EFITU
R-592-C	500 750 1000	T-20 T-24 T-24	Medium Bi-post	21"	36"	43"	B-507	1	21	25.50	ARFIT
B-621	300 500	PS-35 PS-40	Mogul	21"	30"	37"	B-507	1	22	21.00	BESITON
A-621	500 750 1000	T-20 T-24 T-24	Medium Bi-post	21"	36"	43"	B-507	1	22	24.00	AYSITON
B-1021	750 1000	PS-52 PS-52	Mogul	28"	36"	47 1/4"	B-1007	1	18	28.50	BETENTUWON

*For shorter than standard suspension add \$0.30 cutting charge.

*For longer than standard suspension add \$0.05 per additional inch of suspension plus \$0.30 cutting charge.



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR INDIRECT LUMINAIRES



LUMINAIRES NOS. N-621, R-621, N-1021

(“N” Type, Illuminated Bowl)
Finished in Satin Aluminum with Polished Edges
Available only with Stem Hanger



LUMINAIRES NOS. N-622-C, R-622-C

(“N” Type, Illuminated Bowl)
Finished in Satin Aluminum with Polished Edges
Available only with Stem Hanger

INDIRECT ILLUMINATION

This luminaire design is very attractive for the illumination of interiors requiring decorative lighting equipment. The upper bowl is luminous by reflected light from the lower bowl and this reflected light may be colored as explained on Page 87.

These luminaires are spun of heavy gage first quality sheet aluminum and make a very rich appearance.

An efficient Permaflexor provides the light control.

Additional Equipment: At additional cost.

Husk Extension—No. HE-1 for use with No. N-621.

No. HE-2 for use with No. R-621.

Color-Lites—No. F-7 for use with No. N-621 or R-621.

No. F-8 for use with No. N-1021.

INDIRECT WITH DIRECT COMPONENT

Predominantly indirect but a minor portion of the light is directed downward through the louvered bottom member. This type of luminaire is often required for offices, stores and similar installations.

These luminaires are spun of heavy gage first quality sheet aluminum and make a very rich appearance.

An efficient Permaflexor provides the light control.

Additional Equipment: At additional cost.

Husk Extension—No. HE-1 for use with N-622-C.

No. HE-2 for use with R-622-C.

We recommend the use of inside Frosted Lamps

Catalog No.	Lamp Size			Dia. of Bowl	Std. Suspension		Equipped with Permaflexor	Standard Quantity	Weight Approx. Lbs.	*Retail Price Each	Code
	Watts	Type	Base		Top of Bowl to Ceiling	Overall					
N-621	300 500	PS-35 PS-40	Mogul	21"	30"	37 1/4"	B-507	1	22	\$22.50	ENSITON
R-621	500 750 1000	T-20 T-24 T-24	Medium Bi-post	21"	36"	43 1/4"	B-507	1	22	25.50	ARSITON
N-1021	750 1000	PS-52 PS-52	Mogul	28"	36"	47 1/4"	B-1007	1	18	29.50	ENTENTUWON
N-622-C	300 500	PS-35 PS-40	Mogul	21"	30"	36 3/4"	B-507	1	22	23.30	ENSITUC
R-622-C	500 750 1000	T-20 T-24 T-24	Medium Bi-post	21"	36"	42 3/4"	B-507	1	22	26.30	ARSITUC

*For shorter than standard suspension add \$0.30 cutting charge.

*For longer than standard suspension add \$0.05 per additional inch of suspension plus \$0.30 cutting charge.

PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA



PERMAFLECTOR DIRECT LIGHTING LUMINAIRES



LUMINAIRE No. 3200-R with Stippled Roundel Bottom



LUMINAIRE No. 5300-L with Concentric Louver Bottom

Nos.
3200-L
3200-R
5300-L
5300-R
1750-L
1750-R

DIRECT LIGHTING LUMINAIRES

Finished in Scratched Aluminum with Polished Trim
Available only with Stem Hanger

Permaflexor Direct Lighting Luminaires are designed to efficiently provide glareless, high intensity, direct illumination on store merchandise, and, at the same time, furnish moderate illumination on the ceiling.

Each of these units contains an efficient Permaflexor which

directs the bulk of the light downward through the concentric louver or stippled roundel. A very small portion of the light is intercepted by the lower spinning for illumination of the ornamental bowl. Another small portion is re-reflected upward to the ceiling where it is widely spread, supplying moderate ceiling illumination.

WITH CONCENTRIC LOUVER BOTTOM

Luminaire Cat. No.	Lamp Size			Dia. of Bowl	Std. Suspension		Equipped with Perma- flexor No.	Quantity of Louver Vanes	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	Code
	Watts	Type	Base		Top of Bowl to Ceiling	Overall						
3200-L	200 300	PS-30 PS-35	Med. Med.	20"	30"	35"	E-230-GO	5	1	19	\$24.00	TRETUHUL
5300-L	300 500	PS-35 PS-40	Mog. Mog.	22"	30"	35 1/2"	E-500-GO	7	1	20	33.00	FITREHUL
1750-L	750 1000	PS-52 PS-52	Mog. Mog.	28"	36"	42 3/4"	I-1005-GO	10	1	35	50.00	ONSEFUL

WITH STIPPLED ROUND EL BOTTOM

Luminaire Cat. No.	Lamp Size			Dia. of Bowl	Std. Suspension		Equipped with Perma- flexor No.	Diameter of Roundel	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	Code
	Watts	Type	Base		Top of Bowl to Ceiling	Overall						
3200-R	200 300	PS-30 PS-35	Med. Med.	20"	30"	35"	E-230-GO	12"	1	18	\$26.50	TRETUHAR
5300-R	300 500	PS-35 PS-40	Mog. Mog.	22"	30"	35 1/2"	E-500-GO	13 3/4"	1	31	37.00	FITREHAR
1750-R	750 1000	PS-52 PS-52	Mog. Mog.	28"	36"	42 3/4"	I-1005-GO	15 3/4"	1	34	54.70	ONSEFAR

*For shorter than standard suspension add \$0.30 cutting charge.

*For longer than standard suspension add \$0.05 per additional inch of suspension plus \$0.30 cutting charge.



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR DIRECT LIGHTING LUMINAIRES



LUMINAIRE No. 3201-L
with Concentric Louver Bottom

Nos.
3201-L
3201-R
5301-L
5301-R
1751-L
1751-R



LUMINAIRE No. 3201-R
with Stippled Roundel Bottom

DIRECT LIGHTING LUMINAIRES

(For Surface Mounting)

Finished in Scratched Aluminum with Polished Trim

Permaflector Direct Lighting Luminaires are designed to efficiently provide glareless, high intensity, direct illumination on store merchandise, and at the same time, furnish moderate illumination on the ceiling. They are especially desirable for use in stores having ceilings too low to permit the use of suspension type direct lighting luminaires. Also, for application where direct lighting is required and architectural conditions do not permit recessed equipment.

Each of these units contains an efficient Permaflector which directs the bulk of the light downward through the concentric louver or stippled roundel. A very small portion of the light is intercepted by the lower spinning for illumination of the ornamental bowl. Another small portion is re-reflected upward to the ceiling where it is widely spread, supplying moderate ceiling illumination.

WITH CONCENTRIC LOUVER BOTTOM

Luminaire Cat. No.	Lamp Size			Dia. of Bowl	Height		Equipped with Perma- flector No.	Quantity of Louver Vanes	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	Code
	Watts	Type	Base		Top of Bowl to Ceiling	Overall						
3201-L	200 300	PS-30 PS-35	Med. Med.	20"	8 $\frac{1}{4}$ "	13 $\frac{1}{4}$ "	E-230-GO	5	1	15	\$24.00	TRETWONEL
5301-L	300 500	PS-35 PS-40	Mog. Mog.	22"	11"	15 $\frac{1}{4}$ "	E-500-GO	7	1	29	33.00	FITWONEL
1751-L	750 1000	PS-52 PS-52	Mog. Mog.	28"	13 $\frac{1}{2}$ "	20"	I-1005-GO	10	1	37	50.00	ONSWONEL

WITH STIPPLED ROUND EL BOTTOM

Luminaire Cat. No.	Lamp Size			Dia. of Bowl	Height		Equipped with Perma- flector No.	Diameter of Roundel	Standard Quantity	Weight Approx. Lbs.	Retail Price Each	Code
	Watts	Type	Base		Top of Bowl to Ceiling	Overall						
3201-R	200 300	PS-30 PS-35	Med. Med.	20"	8 $\frac{1}{4}$ "	13 $\frac{1}{4}$ "	E-230-GO	12"	1	17	\$26.50	TRETWONAR
5301-R	300 500	PS-35 PS-40	Mog. Mog.	22"	11"	15 $\frac{1}{4}$ "	E-500-GO	13 $\frac{3}{4}$ "	1	29	37.00	FITWONAR
1751-R	750 1000	PS-52 PS-52	Mog. Mog.	28"	13 $\frac{1}{2}$ "	20"	I-1005-GO	15 $\frac{3}{4}$ "	1	42	54.70	ONSWONAR



PERMAFLECTOR FLOODLIGHTS

PERMAFLECTOR FLOODLIGHT NO. FLC-100 PERMAFLECTOR FLOODLIGHT NO. FLC-103



Application—For lighting vertical surfaces of a height of twelve feet or less, from equipment close to the face of such vertical surfaces. **Cannot be used for downward lighting.**

Description—A fixed-focus floodlight consisting of galvanized steel channel, to which are attached individual conical-spun aluminum drums, each containing Permaflector No. I-60, medium base Socket No. 1 and 8" diameter heat resisting clear cover glass (also available in stippled) cemented in cover. This channel must be supported by means of special iron brackets.

Spacings on Centers:

Units may be ordered any spacing desired.

Minimum spacings, 9¼ inches on centers.

Beam Spread—Extra broad, 120 degree spread.

Dimensions:

Over-all height, including channel—9 inches.

Over-all diameter at top—9 inches.

Lamp Size—100 watt A-21.

Minimum Quantity—Two mounted on channel.

Retail Price, Each Floodlight:

Mounted on galvanized steel channel—

Spaced 9¼ inches to 24 inches on centers.....\$12.50

For wider spacings add 5c per additional inch over 24 inches.

Mounted on copper channel—

Spaced 9¼ inches to 24 inches on centers.....\$14.00

For wider spacings add 10c per additional inch over 24 inches.

Retail price on brackets upon request.

CodeFLUDHUNDER

Additional Equipment—for use with No. FLC-100.

For Colored Lighting—Use Color-Lite No. F-2.

PERMAFLECTOR FLOODLIGHT NO. FLC-100-A

Same as Floodlight No. FLC-100 except mounted on individual cast aluminum boxes, drilled and tapped for ½" rigid conduit nipples. When ordering advise number and placement of openings for each box.

Standard Quantity—1

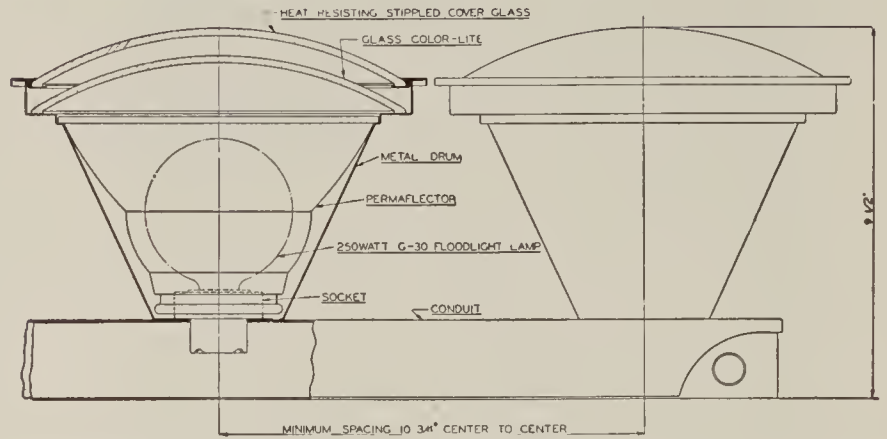
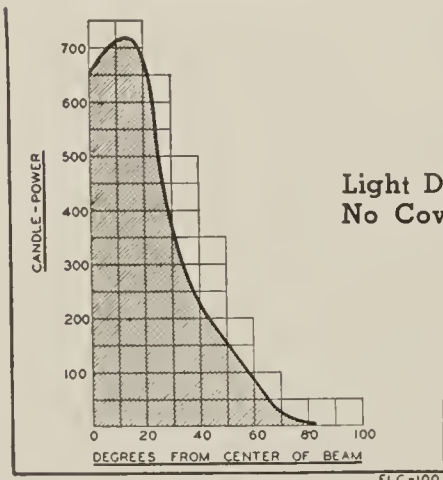
Weight, Approx. 6 lbs.

Retail Price, Each.....\$12.50

CodeFLUHUNAYE

Additional Equipment—for use with No. FLC-100-A.

For Colored Lighting—Use Color-Lite No. F-2.



Application—For lighting vertical surfaces from equipment close to base of such surfaces. A vertical throw of 50 feet may be handled very conveniently and effectively. **Cannot be used for downward lighting.**

Description—A fixed-focus floodlight consisting of galvanized steel channel, to which are attached individual conical-spun aluminum drums each containing Permaflector No. C-101-GO, medium base socket No. 1 and 9⅞" diameter heat resisting clear cover glass (also available in stippled or dioptric) cemented-in cover. This channel must be supported by means of special iron brackets.

Spacings on Centers:

Units may be ordered any spacing desired.

Minimum spacings, 10¾ inches on centers.

Beam Spread—Medium beam 25 degree spread.

Dimensions:

Over-all height, including channel—9¾ inches.

Over-all diameter at top—10¾ inches.

Lamp Size—250 Watt G-30 floodlight lamp.

Minimum Quantity—Two mounted on channel.

Retail Price, Each Floodlight:

Mounted on galvanized steel channel—

Spaced 10¾ inches to 24 inches on centers.....\$15.00

For wider spacings add 5c per additional inch over 24 inches.

Mounted on copper channel—

Spaced 10¾ inches to 24 inches on centers.....\$16.50

For wider spacings add 10c per additional inch over 24 inches.

Retail price on brackets upon request.

CodeFLUHUNTREE

Additional Equipment—for use with No. FLC-103.

For Colored Lighting—Use Color-Lite No. F-4.

PERMAFLECTOR FLOODLIGHT NO. FLC-103-A

Same as Floodlight No. FLC-103 except mounted on individual cast aluminum boxes, drilled and tapped for ½" rigid conduit nipples. When ordering advise number and placement of openings for each box.

Standard Quantity—1

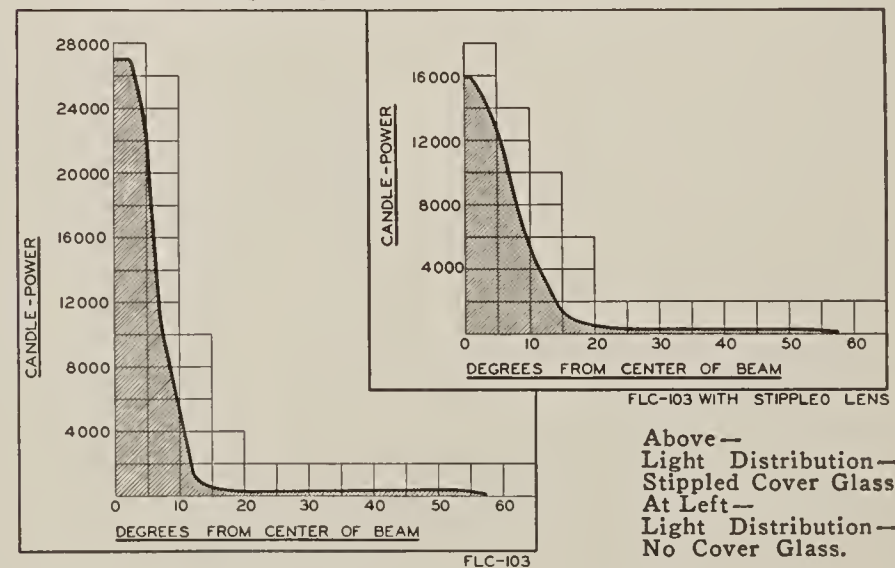
Weight, Approx. 9 lbs.

Retail Price, Each.....\$15.00

CodeFLUHUNTRA

Additional Equipment—for use with No. FLC-103-A.

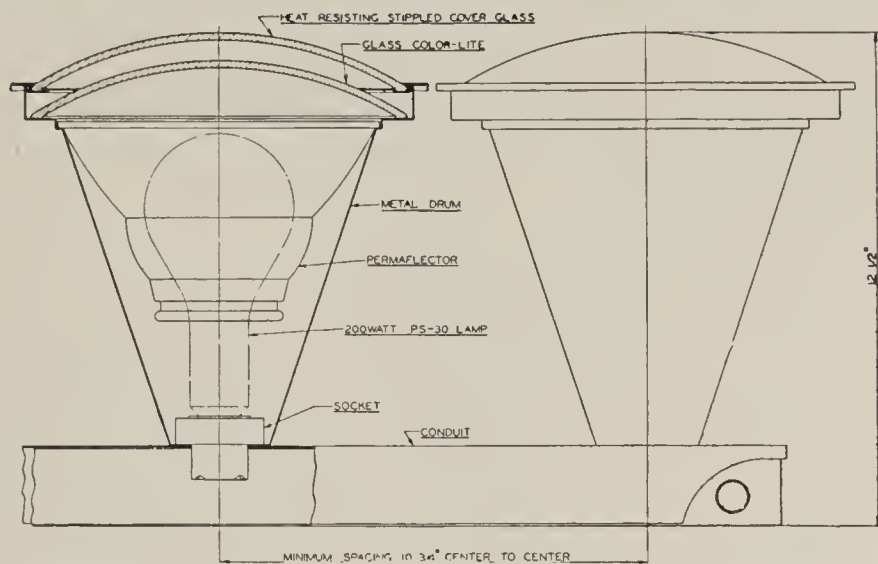
For Colored Lighting—Use Color-Lite No. F-4.



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR FLOODLIGHTS

PERMAFLECTOR FLOODLIGHT NO. FLC-104



Application—For lighting vertical surfaces in general to a height of 20 feet from equipment close to base of such surfaces.

Cannot be used for downward lighting.

Description—A fixed-focus floodlight consisting of galvanized steel channel, to which are attached individual conical-spun aluminum drums each containing Permaflector No. C-101-GO medium base socket No. 1 and $9\frac{1}{8}$ " diameter heat resisting clear cover glass (also available in stippled or dioptric) cemented in cover. This channel must be supported by means of special iron brackets.

Spacings on Centers:

Units may be ordered any spacing desired.
Minimum spacings, $10\frac{3}{4}$ inches on centers.

Beam Spread—Broad beam, 40 degree spread.

Dimensions:

Over-all height, including channel— $12\frac{1}{2}$ inches.
Over-all diameter at top— $10\frac{5}{8}$ inches.

Lamp Size—200 Watt PS-30.

Minimum Quantity—Two mounted on channel.

Retail Price, Each Floodlight:

Mounted on galvanized steel channel—

Spaced $10\frac{3}{4}$ inches to 24 inches on centers.....\$15.00
For wider spacings add 5c per additional inch over 24 inches.

Mounted on copper channel—

Spaced $10\frac{3}{4}$ inches to 24 inches on centers.....\$16.50
For wider spacings add 10c per additional inch over 24 inches.

Retail price on brackets upon request.

CodeFLUDHUNFOR

Additional Equipment—for use with No. FLC-104.

For Colored Lighting—Use Color-Lite No. F-4.

PERMAFLECTOR FLOODLIGHT NO. FLC-104-A

Same as Floodlight No. FLC-104 except mounted on individual cast aluminum boxes, drilled and tapped for $\frac{1}{2}$ " rigid conduit nipples. When ordering advise number and placement of openings for each box.

Standard Quantity—1

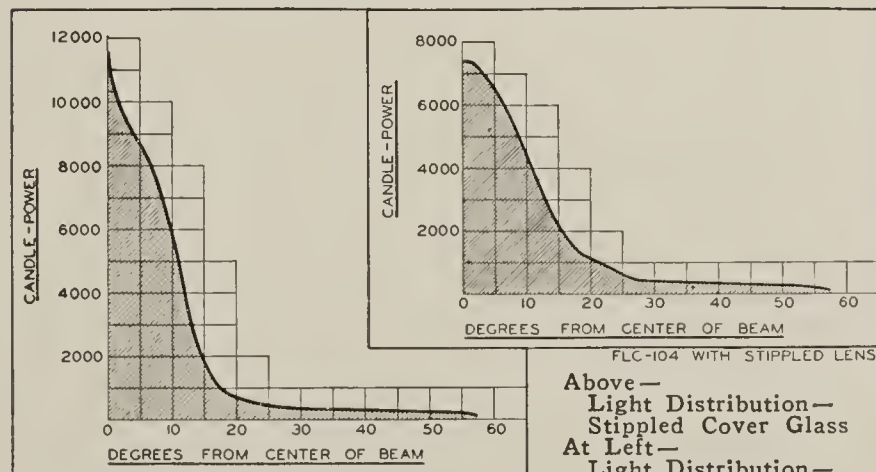
Weight, Approx. 9 lbs.

Retail Price, Each.....\$15.00

CodeFLUHUNFRA

Additional Equipment—for use with No. FLC-104-A.

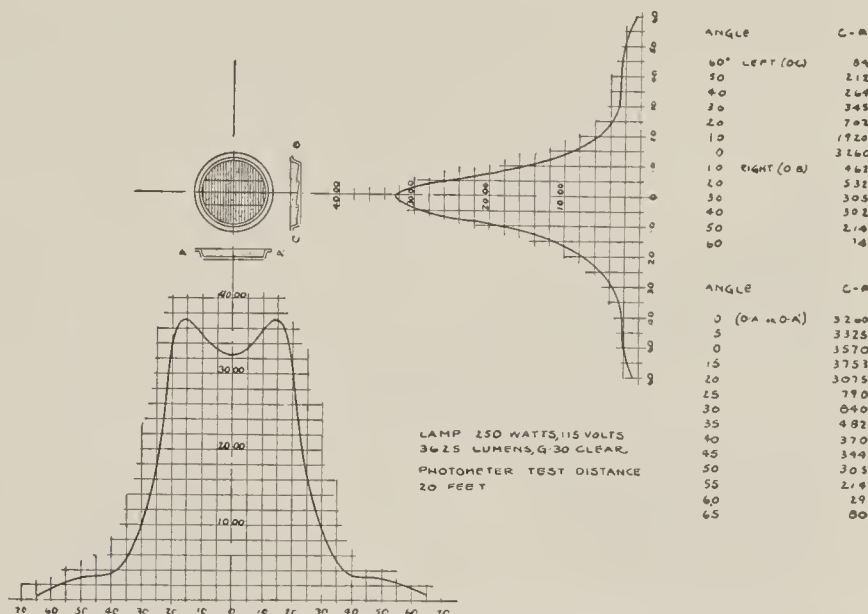
For Colored Lighting—Use Color-Lite No. F-4.



DIOPTRIC (Pie Plate Shape) COVER GLASS

This is a special heat resisting cover glass for use with FLC-103, FLC-103-A, FLC-104, FLC-104-A Floodlights. It serves a very distinctive and unique purpose in that it converts the usual conical beam from the floodlight into a flattened and tilted beam to permit wider spacing of the floodlights when placed close to a vertical surface and yet to give uniform distribution without a scalloping effect.

Herewith is shown the light distribution as it is spread out laterally parallel with the surface to be lighted and also the distribution in the plane perpendicular to the surface to be lighted. It will be noted that in the plane perpendicular to the surface the beam is tilted toward the vertical surface, thus permitting the floodlight to be set vertically close to the surface. With the floodlight 12" from the vertical surface to be illuminated, the spacing may be as much as 36" on centers without scalloping effect.



Sportland Building, Kennywood Park, Pittsburgh, Pa.

Pylons are lighted by Permaflector FLC-Type Floodlights.
Recessed Permaflectors light booths and marquee.



PERMAFLECTOR FLOODLIGHTS

Description and Application: Permaflexor Enclosed Floodlights are complete, ready-to-install, formed sheet steel floodlights identical in construction and size; each floodlight includes a reflector and casing. These floodlights provide three light distributions: a broad beam of light for close range lighting, a narrow beam for intermediate range and a concentrated beam for long range service. The oxide of iron corrosion-resistant treatment and weather-proof construction of these units equips them to render efficient, dependable service for all outdoor floodlighting applications; particularly for uses such as night construction, protection against sabotage, night production and other operations by the Army, Navy and industry.

Permaflexor Floodlights consist of a formed sheet steel case equipped with clamps, and hinge, treated to resist corrosion, a silver mirrored glass reflector, convex heat-resisting cover glass, gasket, steel lens retaining cover ring, porcelain mogul socket, malleable iron base, corrosion resistant wire cord grip fitting and a three foot length of duplex wire. Semi-gloss gray baked enamel is applied to the inside and outside of the case and base over the corrosion resisting treatment.



ST-1010
ST-1050
ST-1110
ST-1150



Closeup of Door Clamp Open.

FOR 300 TO 1000 WATTS

Dimensions: Height Overall—Horizontal Position—26½ inches.
Diameter Lens, Glass Only—18¾ inches.
Length, Front to Back—20¼ inches.

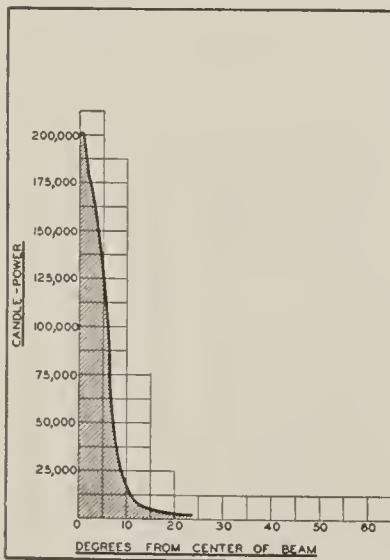
Net Weight: Approx. 35 lbs.

Standard Quantity—1

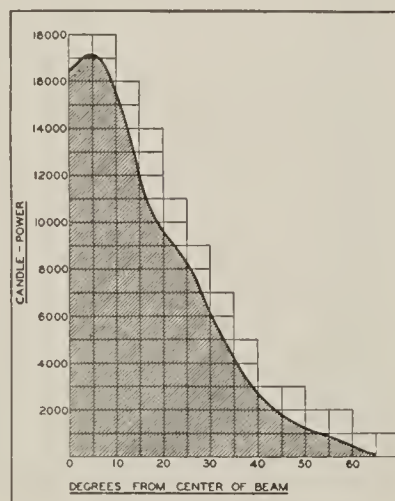
Gross Shipping Weight: Approx. 50 lbs.

Retail Price, Each\$69.45

Retail Price, Each (6" Flange for 2-inch Pipe)\$2.25



Distribution of reflector used in Nos. ST-1150, ST-1110, ST-1110-C and ST-1150-C



Distribution of reflector used in Nos. ST-1050 and ST-1010

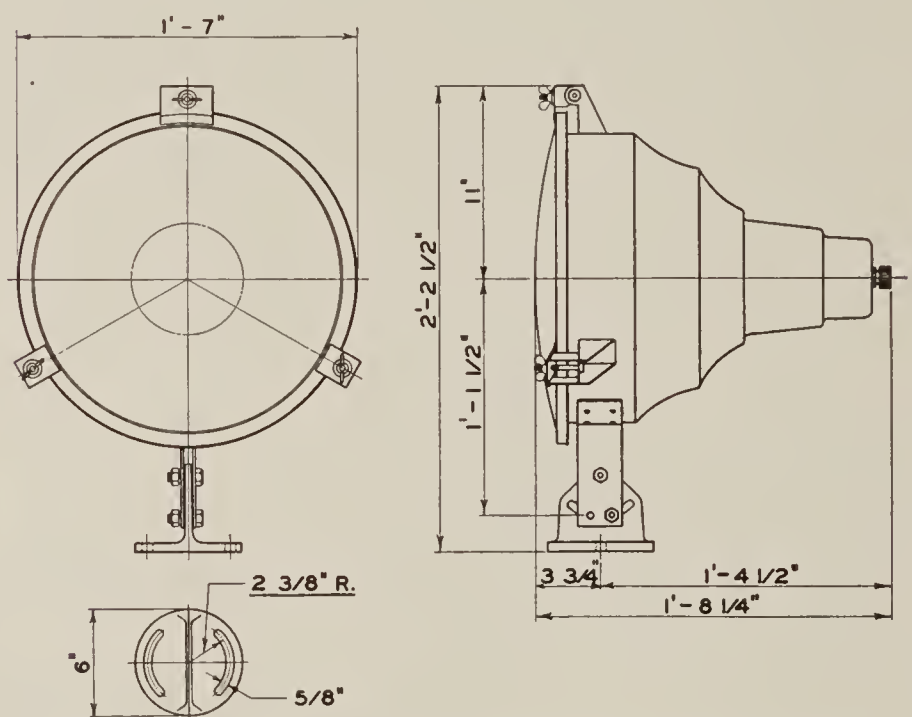
These are fixed-focus floodlights. Repeated focusing or adjusting is found not necessary for general and industrial service.

These floodlights are available equipped with either clear, or stippled heat resisting cover glasses which withstand the high temperature of the lamps under any weather conditions. Smooth clear glass covers have little effect on the light distribution. Stippled cover glasses smooth out the field of light, diffusing and spreading the beam.

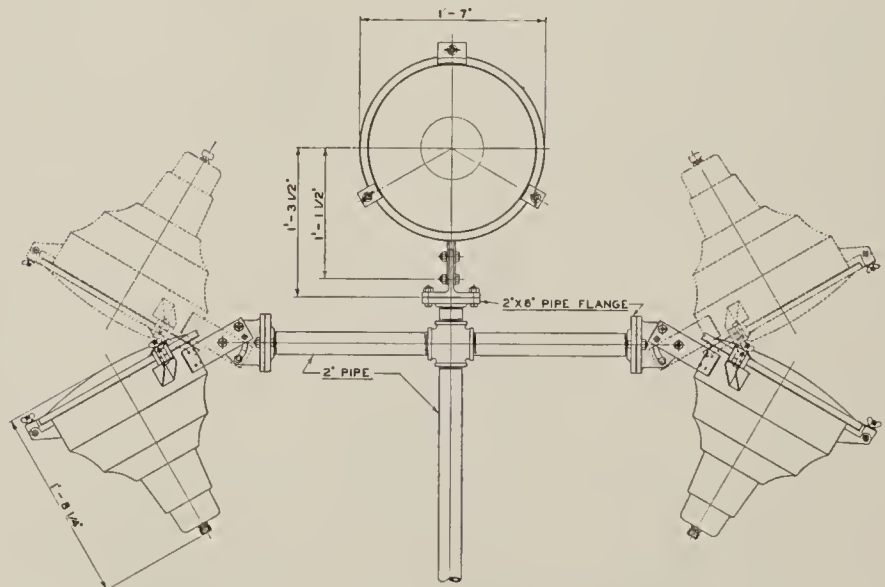
The basic light control from extreme concentration to extra broad spread is accomplished by the Permaflexor, the silver mirrored glass reflector especially designed for floodlighting service.

The malleable iron base is so designed that the floodlights can be mounted on either a vertical or horizontal flat surface or attached to a 6-inch flange for 2-inch pipe mounting which must be ordered separately. The floodlight may be installed so that it may be adjusted to almost any desired position.

Radial lines on base assist in marking the horizontal and vertical angle setting.

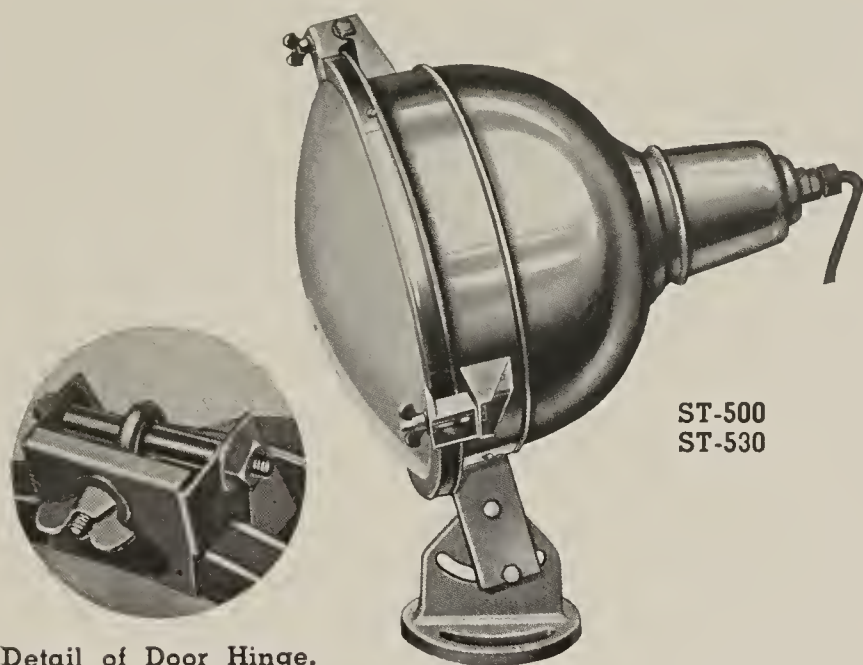


Floodlights Nos. ST-1010, ST-1050, ST-1110 and ST-1150, Base Mounting, Front and Side View.



Above—Floodlights Nos. ST-1010, ST-1050, ST-1110 and ST-1150, Pipe Mounting, Showing Several Possible Mounting Positions.

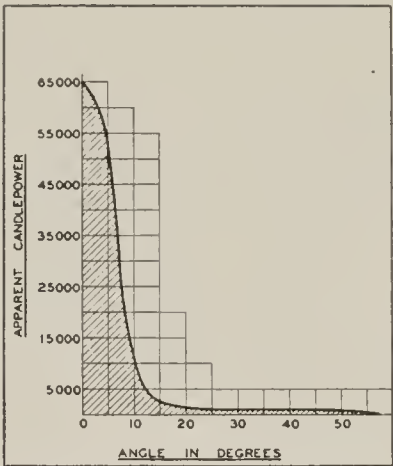
PERMAFLECTOR FLOODLIGHTS



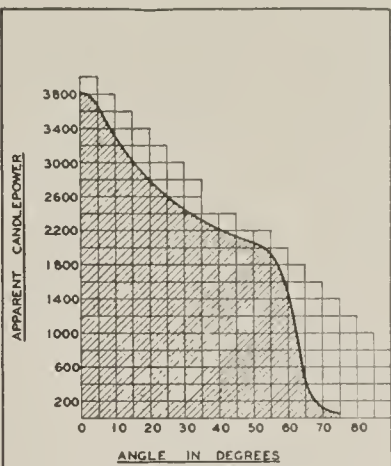
Detail of Door Hinge.

FOR 300 TO 500 WATTS

Dimensions: Height Overall—Horizontal Position—24 inches.
Diameter Lens, Glass only—15¾ inches.
Length, Front to Back—16½ inches.
Net Weight: Approx. 21 lbs. **Standard Quantity—1**
Gross Shipping Weight: Approx. 30 lbs.
Retail Price, Each\$51.00



Distribution of Reflector used in ST-500 and ST-500-C



Distribution of Reflector used in ST-530

DETERMINING THE NUMBER OF FLOODLIGHTS REQUIRED

To determine the number of floodlights which will produce the required level of illumination use the following formula:

$$\text{Number of floodlights} = \frac{(\text{Area} \times \text{Foot-candles})}{0.7 \times (\text{Beam Lumens})}$$

In this formula the area, of course, is the area of the surface to be lighted in square feet; the footcandles represent the intensity ultimately desired; 0.7 represents a depreciation factor, making allowance for normal depreciation; beam lumens may be selected from descriptive copy applying to the particular floodlight to be employed.

NOS. ST-530, ST-500 AND ST-500-C

Catalog Number	Equipped with Permalector	Equipped with 15 3/4" Diam. Lens	For Incandescent Mogul Base Lamps	Beam Spread Degrees
ST-530	E-530-GO	Stippled	500-300 Watts	170
ST-500	C-500-GO	Stippled	500-300 Watts	40
ST-500-C	C-500-GO	Clear	500-300 Watts	25

Data herewith applies to complete units and is based on Electrical Testing Laboratory tests

Engineering Data	Catalog Number of Floodlight					
	ST-1050	ST-1150	ST-1150-C	ST-1010	ST-1110	ST-1110-C
Lens.....	Stippled	Stippled	Clear	Stippled	Stippled	Clear
Lamp Watts.....	500	500	500	1000	1000	1000
Lamp Bulb.....	PS-40	PS-40	PS-40	PS-52	PS-52	PS-52
Lamp Lumens.....	10,000	10,000	10,000	21,500	21,500	21,500
Total Lumens of Unit.....	6,400	6,950	7,000	13,750	14,950	15,050
Total Efficiency of Unit.....	64%	69.5%	70%	64%	69.5%	70%
Beam Lumens.....	5,800	4,400	3,600	12,520	9,460	7,820
Beam Efficiency.....	58%	44%	36%	58%	44%	36%
Beam Spread Vertical.....	106°	49°	28°	106°	49°	28°
Beam Spread Horizontal.....	104°	48°	26°	104°	48°	26°
Maximum Beam Candlepower.....	11,900	25,900	55,500	26,600	55,700	121,500

SUGGESTED APPLICATIONS OF PERMAFLECTOR FLOODLIGHTS FOR PROTECTION, CONSTRUCTION, PRODUCTION

Night Construction—such as dams, boatyards, assembly yards, bridges, buildings and the like can be flooded with high intensity productive light by Permalector Floodlights. Construction projects or production areas in which night work is not carried on can be effectively protected against sabotage by lower intensity floodlighting arranged to provide a ring of light around the job.
Yard Lighting—of prime importance for yard traffic, production in open areas, storage facilities or protection; may be

used with or without fence lighting. Mounted on the roofs of buildings, on elevated tanks or on poles, Floodlights provide an excellent method of lighting yard areas. Narrow or concentrated beam floodlights may be used to illuminate long narrow areas—between buildings and between the buildings and fence. Wider areas require broader distribution. The basic rule on this type of installation is simply to place each floodlight so that good overall coverage is obtained.



PERMAFLECTOR FLOODLIGHTS



FLOODLIGHT NO. ST-200

Permaflector Enclosed Floodlight No. ST-200 is a companion unit to the larger wattage ST Series Floodlights. ST-200 brings to users of small wattage, low price floodlights, the rugged construction, mechanical features and peak lighting performance, usually available only in larger floodlights. ST-200 is designed to accommodate only the Medium Base 200-watt Incandescent Lamp.

ST-200 consists of a formed sheet steel housing equipped with: a silver mirrored glass Permaflector; convex heat-resisting cover glass; gasket; removable lens frame with clamp; porcelain socket; adjustable bracket and base; and corrosion-resistant, weatherproof cord grip fitting.

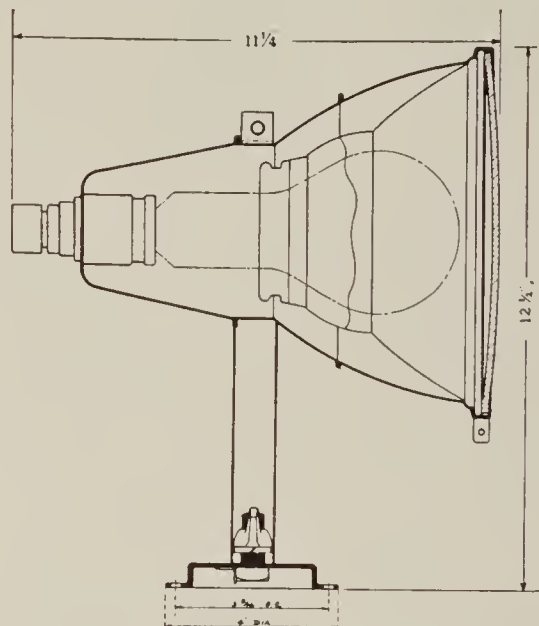
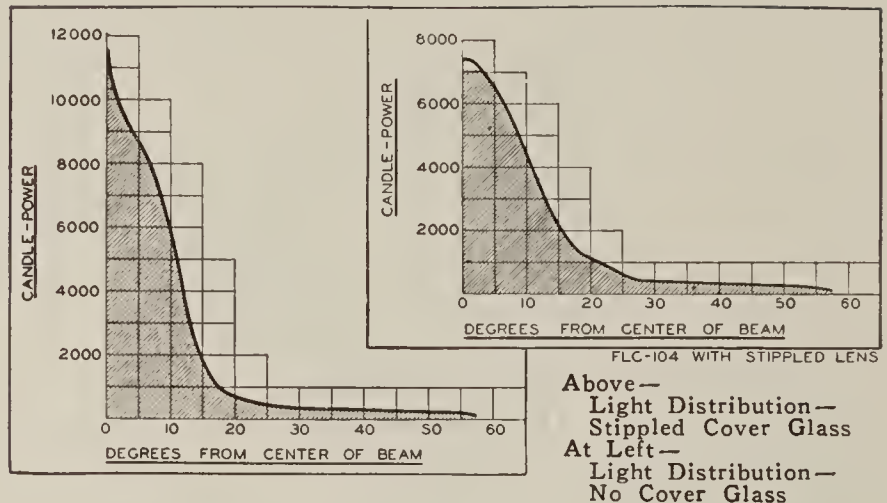
All steel surfaces are given an oxidizing treatment to protect them against corrosion, followed by two coats of baked enamel to complete the protection.

This corrosion-resistant treatment and the weatherproof construction equip these floodlights to render efficient, dependable service for all exterior floodlighting applications.

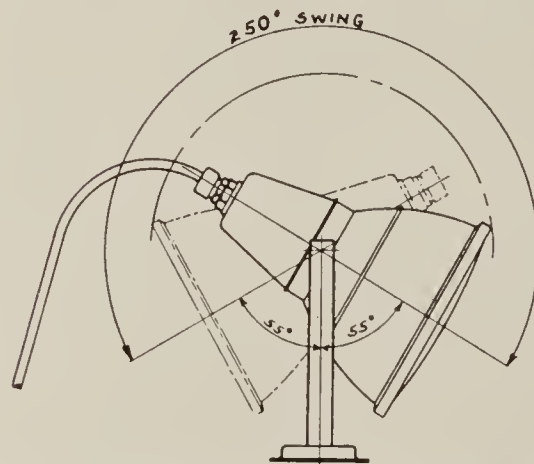
SPECIFICATIONS NO. ST-200

Dimensions:

Height Overall—Horizontal Pos.	12½ inches
Overall Diameter	8⅝ inches
Length, Front to Back	11¼ inches
Permaflector Number	C-101-GO
Lens (Glass)	8⅝" Diam. Heat Resisting Stippled
Standard Quantity	1
Net Weight, Approx.	6½ lbs.
Gross Shipping Weight, Approx.	8 lbs.
Retail Price, each	\$18.40
Code	STUHUN



Cross Section of ST-200, Position of Reflector



Adjustability—250° Swing Vertically, 360° Horizontally,
By Adjusting Wing Nuts on Bracket and Base

ENGINEERING DATA NO. ST-200

(Light Distribution and Output Readings are with Stippled Lens)

Lamp Data	200-watt PS-30 Clear Medium Base Incandescent
Bare Lamp Lumens	3650
Beam Spread (Degrees)	50°
Overall Spread (Degrees)	145°
Beam Lumens	1617
Beam Efficiency	44%
Total Lumens of Unit	2565
Total Efficiency of Unit	70%
Maximum Beam Candlepower	7400



PITTSBURGH REFLECTOR COMPANY, PITTSBURGH, PENNSYLVANIA

PERMAFLECTOR INSTALLATIONS



ADRIAN SHOPPE

Pittsburgh, Pa.

An unusual and distinctive shop incorporating the architectural use of light and hitting a dramatic high point in visual merchandising.



FOOD FAIR STORES
Collingswood, N. J.

Designed By: Thalheimer & Weitz, R.A.
Philadelphia, Pa.

Recessed Permaflectors give a well-lighted selling area.



SPEAR & COMPANY

Pittsburgh, Pa.

Direct and indirect incandescent lighting combined.



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